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# DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy  
Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME XII,

NEW YORK, JANUARY 31, 1923

No 5

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**In This Issue** { *Why Coal-Tar Crudes Are Scarce*  
*How U. S. Helps Chemical Export Trade*



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ISSUED EVERY WEDNESDAY

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All bids must be on the forms furnished by the Government, which may be had now on application to the Chairman, Philadelphia District Ordnance Salvage Board, Room 808, Army Building, No. 39 Whitehall Street, New York City. Bids will be publicly opened and read at the above office, at 12 o'clock noon, Eastern Standard Time, February 15th.

The Government reserves the right to reject any or all bids.



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# DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XII, NUMBER 5

[JANUARY 31, 1923]

## BUSINESS TRAINING FOR CHEMISTS

That it is a good thing for both chemical industry and chemical science to give the men of the industry training in the science is an obvious fact. The converse of the statement is not less true. It is a good thing both for the science and the industry to have chemists with business experience.

Out of the first premise have grown the courses in elementary chemistry, fathered by the Salesmen's Association, for men in the executive and sales departments who have had no previous technical training. Small, earnest groups of chemical business men in both New York and Philadelphia are studying chemistry this winter, learning the foundation upon which this industry rests and becoming acquainted with the peculiar problems of the technical and research departments.

Out of the second premise the local sections of the American Chemical Society might very well find a constructive suggestion for activity. By courses in economics, traffic, finance, sales, law and business administration the technical and research men could learn much about the industry and the problems peculiar to the distribution of chemicals.

New York led a way in giving salesmen a training in chemistry which Philadelphia was quick to follow. Philadelphia may blaze a trail in business training for chemists for such courses are being considered and the Drexel Institute has offered to take up this work. It would be a waste of time to enumerate even the many good reasons why both movements—so auspiciously started—should be taken up in all important centers of American chemistry.

## CHEMICALS AND PROSPERITY

The business depression in Java during 1921 and 1922 is vividly reflected in the Government statistics of imports of chemicals and exports of quinine, cinchona bark, coconut oil, peanut oil and copra. Imports of caustic soda from the United States and Great Britain increased in 1922 over 1921, indicating a gradual improvement in the industries. Used mainly in Java for refining vegetable and mineral oils, for soap making and paper manufacture we find the United States sold 837,734 kilos (2.20 pounds) to Java last year against only 55,000 kilos in 1921. Great Britain's sales of caustic soda also increased from 248,000 kilos in 1921 to 889,832 kilos in 1922.

A sharp decline in the use of fertilizer in Java, is reflected in the small importation of the raw materials, which was the natural result of depressed

industries and lack of demand for products of the soil. Imports of sulfuric acid from Japan declined from 569,367 kilos in 1920, to 142,260 kilos in 1921, and 53,333 kilos in 1922. The imports from the United States also fell off heavily from 98,919 kilos in 1920, to 37,500 kilos in 1921, and 3,382 kilos in 1922. The bulk of the amount imported was shipped from Holland. The United States lost entirely its trade with Java in copper sulfate during the last two years. Holland, England and Germany gained in 1922 in this chemical insecticide at our expense. We also lost the alum trade with Java, which was not large in 1920, but entirely disappeared in 1921 and 1922. However, less was taken from Great Britain, but Germany stepped in and increased her sales from 51,000 kilos in 1920 to 194,575 kilos in 1922. Probably conditions in the tanning industry, paper manufacture and other lines account for the decreased consumption, but Germany pushed her sales vigorously. In calcium carbide for making acetylene and cyanamid for fertilizer we find similar losses in trade by the United States, Great Britain and Sweden. Java turned to the mother country again for supplies needed, and Holland shows decided increases in exports of this chemical to the Eastern island, especially in 1922, when they reached 548,425 kilos.

In exports of quinine salts Java reports a falling off in 1922 to 99,859 kilos compared with shipments of 261,655 kilos in 1921 and 253,453 kilos in 1920. But exports of cinchona bark increased. The total quantities exported to Holland, Great Britain, British India and Japan in 1922 amounted to 5,593,000 kilos against 4,330,000 kilos in 1921, and 3,711,000 in 1920. In the vegetable oil trade the losses during the depression were severe and large and small mills alike were closed down. Now, happily, improvement is reported in all lines and 1923 is expected to bring old-time prosperity to all the Dutch East Indies islands.

## CHEMISTS CHOOSE A FITTING PLACE

Many historical memories will be revived when the American Chemical Society meets in New Haven in April. The dedication of the \$2,000,000 Sterling Chemical Laboratory at Yale would have no meaning if the name of Prof. Benjamin Silliman, the first head of the Chemistry Department, did not bring to visiting chemists the recollection of his great service to science. He taught chemistry at Yale for fifty years, wrote numerous works on technical and agricultural chemistry and mineralogy and founded the first laboratory, going to England to buy the equipment. He undertook many investigations in applied chemistry and his

name was associated with Goodyear's during the early days of experimental work in vulcanizing rubber, and Prof. Silliman afterwards gave the process great publicity in his lectures.

Prof. Silliman enjoyed the confidence and support of John Quincy Adams, Daniel Webster, President Jackson and President Tyler. He was a friend of Priestley, Robert Hare, Agassiz, and Humboldt. While no outstanding chemical discovery is credited to Prof. Silliman he was a prolific contributor to chemical literature and he inspired in others the desire to study, and it may be said without fear of contradiction that he is the recognized creator of Sheffield Scientific School where hundreds of chemists have received their early training.

### THE RAILROAD SITUATION

Although the railroads of the country are free from strikes and other outward signs of inward difficulties, shipping goods to-day is accompanied by all the trials and tribulations of a bad tie-up. That the goods leave the plant for a haul which usually takes a week or ten days, is no assurance whatever that the goods will be at their destination at the end of the ten days. Judging from present schedules for the shipment of chemicals, a ten day haul is taking something in the neighborhood of ten weeks, that is in cases where the shipper sends out a man to follow up the goods and keep them on the move. Where this is not done, shipping by rail means sending goods out into a hopeless maze with the odds in favor of its becoming lost before reaching the consignee.

A combination of circumstances is responsible for the current bad conditions in the rail situation. In the first place, snow storms have slowed down railroad operations all over the country, particularly at junction points, and necessitated numerous embargoes as a result of the jams. In the second place, railroad equipment is in very poor condition generally as an aftermath of the strike of the maintenance men last summer. Thirdly, business during the past month or two has expanded somewhat more rapidly than the railroads prepared for, and although expansion has not been unexpected, it exceeded expectations considerably. This situation has very effectively reduced the rate of freight transportation to a minimum.

Many manufacturers are receiving a flood of complaints from their customers which they, the manufacturers, are helpless to correct at this time. Goods which should have left factories thirty days ago, are still held up as the result of embargoes. Shippers cannot even start the goods on their way in many instances while the problem of assuring delivery after they are shipped, presents still a bigger problem. Belief that this or that embargo has been lifted when in reality it has not been, or lack of knowledge that embargoes against various points exist, have brought numerous protests from consumers. Manufacturers who must use tank cars or have to wrestle with the problem of returnable drums, are having their hands full.

Manufacturers are doing everything in their power to get goods to the consuming industries

on time. The fault lies with the railroads, the weather, and other circumstances, not with the shipper. Chemical consumers all over the country will win the gratitude of the industry if they will withhold their complaints on delivery until the situation is cleared up.

When asked by the Salesmen's Association if they would be willing to hold a Chemical Exposition every second year instead of annually, the management of the exposition company stated that this would indeed be a very bad thing for the American chemical industry. What would the chemical industry do during the odd years without its exposition? says the management. Save money, perhaps, says the chemical industry, although it is a safe gamble that the money spent by the chemical manufacturers at the 1922 Chemical Exposition would not buy a new uniform for a private in the Fiji Islanders National Guard.

Menthol has just completed one of its semi-annual spasms. Yesterday, we congratulated ourselves that we had enough stock to last for a month or two with a steady market at nine dollars per pound. To-day we are wondering where we can locate a buyer with so little sense as to take our stock at eight dollars per pound. And to-morrow, we suppose, we will kick ourselves around the block because we sold out at nine-fifty when we might have squeezed out nine seventy-five.

### Many Men: Many Minds

Many high lights of literary England did not disdain to give free advertising to Day & Martin, says the "Shoe and Leather Reporter" commenting on the passing of the shoe polish firm. Among these were Carlyle, George Eliot, Tom Hood and others. Sam Weller used Day & Martin to black the boots of the immortal Pickwick, who British like, did not insist upon being present in propria persona while the boots were being made presentable. In the good old days calf leather was finished with wax on the flesh side and high boots were plastered with many coats of lampblack, oil and what not.

Prof. Alfred H. White, of the University of Michigan, asks: "What kinds of explosives will be used in the next war?" and he answers the question as follows: "The only answer which it is possible to give at the present time is that they will be unstable chemical compounds which will have to be synthesised with very great care, and will almost certainly be complex organic compounds. The one type of factory which is always working with this form of synthetic organic compounds is that which manufactures dyes."

The income of our farming population is largely dependent upon Europe's purchases, and the prosperity of all our industries is very much affected by fluctuations in the purchasing power of the farming population, says the National City Bank of New York. If European countries cannot pay they cannot buy for very long, and it is evident that the situation in Central Europe is steadily growing more critical.

# Why Coal-Tar Crudes Continue Scarce

## *Benzol, Toluol and Naphtha Production Has Not Yet Caught Up —Cresylic Acid and Phenol Present Difficult Problems*

**F**IVE months or so have passed since the termination of the country-wide coal strike last summer, and only now is the production of coal-tar crudes beginning to catch up to the demand from the consuming industries. For six months there has been a scarcity of benzol, toluol, solvent naphtha and cresylic acid. During the past two weeks, some easiness in the benzol situation has been noticed, but the other products are still as scarce as ever. It is estimated that the situation will not again be normal until next fall, as the nearness of spring presages the buying and storage of benzol for motor fuel use during the coming summer. Through the warm weather until October, at least, steady demand for benzol is almost certain and will not find the usual supplies to carry over the months when consumption exceeds production.

The whole situation to-day traces directly back to the coal strike and the reduction in coking operations by the steel industry as a result of its inability to secure sufficient coal. Not only was the production of iron and steel cut down, but the coal-tar by-products of the ovens were cut off for a period of five months. To make the situation more acute, the period preceding the calling of the strike on April 1 was marked by small stocks of all crudes and a heavy demand for export trade. Had business been slow and production normal just before the strike, sufficient stocks might have been available to carry over until last fall, but as the reverse was true, supplies of benzol, toluol and other crudes were small when the strike began.

### Scarcity of Benzol and Solvents

No opportunity to import benzol, toluol, or solvent naphtha existed, because Europe was calling for benzol, particularly from the U. S., for use as motor fuel. Europe could use more than she could produce, and this fact precluded bringing the material in here. Benzol has been and is an export item as far as the United States is concerned. Consequently, the situation became a case of worrying along the best way possible on the stocks available and that which could be produced by the very few coking plants which were operating. Following the termination of the strike, the continued heavy demand both for domestic and export use found it well nigh impossible for production to gain on consumption. This condition has continued for six months with little alleviation except in the case of benzol.

Because of the bigger demand for benzol for motor fuel use as compared with the call for toluol, producers have cut into the toluol fraction in the distillation with a consequent reduction in toluol output. This is readily explained by the fact that ninety per cent of all benzol produced to-day goes for motor use while the other ten per cent is used in the production of intermediates and as a solvent. High gasoline prices abroad where the ordinary American type is available, which is seldom, has tended to make benzol at the price ruling during the year or so past, gravitate to the European market where a retail motor fuel price equivalent to fifty to sixty cents per gallon is normal, but the goods have not been available here for this export trade.

The shortage has been confined to benzol, toluol, solvent naphtha, xylol and the other liquids. Although naphthalene originates from the same source, plentiful supplies have been available here. The demand in com-

parison to the other items has been smaller and American production has been fortified by the importation of crude naphthalene from England. Recent indications show that a large number of American consumers have been communicating direct with English manufacturers with the object of contracting for supplies of crude naphthalene over a period. These numerous comparatively small inquiries are reported to have had the effect of giving the impression of a heavier demand than really exists with consequent tendency to advance prices abroad.

### The Case of Xylol

Xylol has been scarce for many months and supplies of a close boiling product have been difficult to locate. The fact that the situation has reached a point where no xylol can be had at any price in the American market, has been pointed out by a recent communication from a big consuming company which has been trying unsuccessfully to locate a constant supply of this material. The one producer in the United States who used to supply this item states that they have discontinued the manufacture owing to several reasons. They lay the greatest stress on their inability to secure the proper raw material which comes from coking operations in the South and West where coal is particularly rich in xylol forming constituents upon distillation. Being unable to locate stocks in the United States, the would-be purchaser is now communicating with England in the hope of locating a supply of close boiling xylol there. Reports in the local trade state that regular importers of coal-tar products from abroad have previously tried to bring in xylol, but found that satisfactory arrangements at a reasonable price could not be made. The consuming field in the United States, it is understood, is not really broad enough to warrant production of xylol on a large enough scale to make it worth while.

### Cresylic Acid an Old Problem

The story of the difficulties which cresylic acid consumers have run into, has become a much repeated tale, and differs materially from the general problem confronting coal-tar crudes as a group. The problem, however, is none the less serious. The big point of difference between the case of benzol and solvent naphthas, and that of cresylic acid and phenol, for the latter comes into the same class as cresylic, is the tariff of 55 per cent and seven cents per pound. Domestic production of cresylic acid has not been able to take care of the demand here and consumers have naturally depended on imported supplies to take care of the difference.

The goods are available in England and considerable quantities have been brought in here after a controversy regarding the duty which is not settled yet. The difficulty rests in the point that the cost of the cresylic acid c.i.f. New York is about 70c per gallon, upon which, however, must be added a duty of approximately 95c per gallon, bringing the import cost to \$1.65. This compares to a selling price of about a year or so ago of 50c to 60c per gallon as to grade, spot New York. On a c.i.f. cost to 70c per gallon, the ad valorem duty of 55 per cent amounts to about 39c plus a specific duty of 7c per pound or 56c a gallon.

Much of the material imported, all of which has been released from bond, since the passage of the Fordney-



McCumber Tariff Act has paid the full rate of duty. After allowing the goods to stand in store for weeks while the Customs authorities tried to decide the exact classification for cresylic acid, which is not specifically mentioned as such in the coal-tar section except where the terms meta-, para-, and orthocresols are used, some importers were able to take their goods out of bond. The duty was paid under protest and the question is to be decided at a later date. In the meantime, the scarcity of cresylic continues in the United States and consumers are unable to secure stocks for their needs. Four months of acute shortage in the United States has reduced supplies to the vanishing point.

#### What of Phenol?

What will happen to phenol? Will American producers of the synthetic resume operations now that a fairly high price is assured, or is this price still too uncertain a factor on which to plan operations? Practically all the phenol now being sold in the American market originated abroad, the small quantity of natural phenol produced here being far from sufficient. The 30,000,000 pounds of Government excess war stocks were cleaned out along about last August or September. In September, the first lot of phenol came in from England on license. Subsequent lots, after the passage of the new tariff, came in subject to the 55 per cent and seven cents per pound duty.

The depletion of American stocks and the beginning of imports of phenol saw prices begin to climb which practically tripled quotations in the United States. The demand for phenol abroad also was a factor in forcing up values for shipment to this market. Cost to-day to lay down phenol in large drums on a c.i.f. basis at New York is about 18c a pound. This means in reality an import cost of 35c per pound after the duty is paid. With the new phenol basis, prices for all derivatives naturally were forced upward, but the rate and proportion of advance in the derivatives has been uniformly less than that of the raw material.

In the general coal-tar situation, an improvement in the positions of benzol, toluol and solvent naphtha is looked for as the coal and steel industries carry on at a normal pace. As far as phenol is concerned, inasmuch as it carries a high duty while the benzol and toluol group carry none, high prices for some time to come are looked for. Cresylic acid is still an uncertainty. A well-known customs authority has given the opinion that cresylic acid might not be subject to the 55 per cent and 7c duty, according to some interpretations of the tariff. Importers are still fighting the case and at best the future is a guess. If the high duty is sustained, however, a market close to \$2.00 per gallon for cresylic acid is looked for in the future.

The Ohio-Kentucky Fluorspar and Lead Corp., of Youngstown, O., organized under a Delaware charter, with an authorized capital of \$1,000,000 claims to have nearly 1,000 acres of mineral bearing lands in Livingstone county, Ky., representing a substantial part of the known fluorspar deposits of the country. Steps to develop it will be taken at once. Judge B. Kennedy, chairman of Brier Hill Steel, who has accepted the presidency of the company, will relinquish his duties with Brier Hill as it is to be taken over by the Youngstown Sheet & Tube Co.

The business aspects of chemistry were the subject of an address to the chemistry students of Bucknell University by Williams Haynes, publisher of DRUG & CHEMICAL MARKETS, January 22. Mr. Haynes was the guest of the Philadelphia Paint Mixers Club at luncheon on Jan. 23.

### Business Brevities

The Emkins Chemical Co., Long Island City, N. Y., has disposed of land, buildings and machinery located at Hancock and 14th sts., Long Island City.

Leroy C. Buttolph, of the Cooper-Hewitt Electric Co., New York, addressed the monthly meeting of the Textile Chemists and Colorists at the Hotel Pennsylvania, New York, last Friday evening. Fastness of color to light was demonstrated by the use of the "Uviat" lamp.

Over one hundred members of the Drysalters' Club of New England attended the organization's thirty-eighth anniversary banquet held at the Algonquin Club, Boston, Jan. 23. Dr. Kilheffer, of the Newport Chemical Works, and Dr. Zinsser, of Zinsser & Co., made brief talks.

The chemical laboratory of the American Dyestuffs Co., Newington, N. H., was completely destroyed by fire last week. A small explosion of chemicals started the conflagration and subsequent explosions caused damage estimated at \$25,000. The American company moved to Newington, near Portsmouth, from Burrage, Mass.

The franc declined to 6.10½ cents on Monday, Jan. 29, a new low price for this year and for 1922. The German mark for the first time sold below the Polish mark, and at a new low price for all time, .0025 cent. At this quotation 40,000 marks may be purchased for \$1. Lire were dragged down with marks and francs, and sold at a new low record for the year. Even sterling was affected.

The Southern Pacific Co has reduced its freight rate on liquid sulfur-dioxide in tank cars to Pacific Coast points to \$1.50 per hundred pounds from all Eastern points. The rate from New York has been \$3.38 per hundred pounds and \$3 from St. Louis. Antimony penta-sulfide from California to Eastern points, now subject to carload rate of \$3.38 to New York and \$3 to St. Louis, will be reduced to \$2.40 to New York and \$1.90 to St. Louis, with proportionate reductions to points between.

New York chemists have formed the American Institute of Chemistry, which is to include only chemically trained men. The following officers were elected at a meeting on Jan. 22, at 381 Fourth avenue: President, Dr. H. G. Byers in charge of the department of chemistry of Cooper Union; vice president, Dr. Lloyd Van Doren, a chemical patent lawyer; treasurer, C. K. Simon, president of the Dye Products & Chemical Co., 200 Fifth avenue; the secretary, Lloyd Lamborn, editor of "Chemical Age."

#### DO YOU WANT ANYTHING?

You will no doubt be interested to know that our first two advertisements in your classified column, Drug & Chemical Section were productive in a most unusual manner. Our first advertisement resulted in a reply being received in the same mail that brought us your paper, and our second advertisement, of another product resulted in our receiving a reply before your paper carrying the Advt. arrived.

This might, on the surface, appear a reflection upon your circulation department, but actually, we being located in Phila., your New York subscribers answered our advt. the day they received their copy of your paper and replied to us in the mail carrying your issue over to us.

We are quite pleased with the results obtained from advertising in your classified column, and you will likely find us there quite regularly.

WAGNER, HENKELS & DAUE,  
(Signed) P. H. Henkels.

Philadelphia, Pa., Jan. 26, 1923.



# U.S. Losing Vegetable Oil Trade in Europe

**Foreign Crushers Recovering from Effects of War—Boll Weevil Ravages Seriously Affect Production of Cottonseed Oil—Competition Felt in Domestic Market from Heavy Production of Lard and other Animal Fats—Future of the Industry Dependent Upon Ability to Lower Costs of Production to Point Where Competition Can Be Successfully Met**

The importance of the United States in the vegetable oil field is due to the production of cottonseed, which prior to the war was the source of from 90 to 95 per cent. of the total vegetable oil produced in this country. During the war large quantities of Oriental oil and oil materials which formerly went to Europe were shipped to the United States. During 1918, the year of maximum imports, net imports of oil materials amounted to 258,000 tons and net imports of oil to 313,000 tons, but during the nine months of 1922 net imports of oil declined to 92,600 tons. Exports of cottonseed oil, which always make up the bulk of American oil exports, declined from an average pre-war total of 121,000 tons and 113,000 tons in 1921, to 21,000 tons exported during nine months of 1922. The decline is due, says "Commerce Monthly," to recovery of European oil crushers, adverse exchange rates, reduced production of cotton seed due to ravages of the boll weevil, and heavy production of hog products.

European manufacturers of soap and similar products manufactured from low priced vegetable oils are in a better position to market their products in foreign markets than are American manufacturers, while improved refining methods make possible broader substitution of inferior for higher priced oils, such as cottonseed oil, in the manufacture of edible products.

## TRADE OF THE UNITED STATES IN VEGETABLE OILS

Kind of Oil	1910-14 (5-yr. aver.)	1917	1918	1919	1921	1922 (9 mos.)
<b>Imports</b>						
	(in gross tons)					
Coconut	24,172	35,368	158,968	125,475	84,695	70,796
Cottonseed	13,302	6,117	8,202	12,413	298	..
Olive for mechanical purposes	2,304	2,180	1	946	1,862	3,493
Olive, edible	16,328	25,223	573	30,215	22,192	19,436
Palm	27,259	16,104	9,372	18,669	10,337	16,597
Palm kernel	112,475	829	15	561	1,064	766
Peanut	19,826	10,132	30,563	68,773	1,348	724
Rapeseed	14,684	3,632	10,303	3,739	3,193	3,516
Soya bean	18,441	72,630	149,993	87,414	7,716	6,506
Total imports	102,791	172,215	367,992	348,505	132,705	121,834
<b>Exports (domestic and foreign)</b>						
Coconut	165	492	688	56,503	4,509	5,390
Cottonseed	121,193	70,943	53,177	86,314	112,747	20,707
Olive for mechanical purposes	75	32	2	*	3	..
Olive, edible	33	160	185	217	88	23
Peanut	112	74	57	1,980	954	430
Palm	56	15	4	113	172	279
Palm kernel	1112	11	*	2	3	76
Rapeseed	8	11	*	2	3	1
Soya bean	140	1,625	1,124	20,334	1,096	487
Corn	8,804	3,920	76	2,864	1,964	1,844
Total exports	130,420	77,272	55,313	168,327	121,536	29,237
Net imports	227,629	94,943	312,679	180,178	11,169	92,597

\* Not reported separately.

† Three-year average.

‡ Less than one-half gross ton.

§ Net exports.

This development in the British oil industry has been reflected in the use of materials richer in oil content. Prior to 1913 imports of copra, peanuts and palm kernels were relatively unimportant but in 1919 these materials constituted 43 per cent., and in 1922 about 37 per cent. of total oil materials imported. Palm kernels, which are now second in importance only to cottonseed as an oil material for the British industry, are produced largely in British provinces of West Africa.

Before the war Germany had practically a monopoly in crushing palm kernels.

During the war the industry shifted to the United Kingdom, which was the nearest and most powerful competitor. In order to encourage the trade after the war a differential export duty of £2 per ton was levied on palm kernels exported from British West Africa, to non-British destinations, but in response to native pressure it was repealed in July, 1922.

France holds relatively the same position in crushing peanuts that the United Kingdom now holds in crushing palm kernels.

In so far as the general European position can be judged from net imports of oil materials, it appears that the United Kingdom has lost much of the wartime gain and is now not far from the pre-war level.

France, whose supplies were curtailed during and after the war, has regained its pre-war position. Germany, which suffered most, has made great progress but is still far below its pre-war level. The Netherlands, on the other hand, seems to be the only important country which has increased its net imports of oil materials.

European net imports of vegetable oils show a heavy decline as compared with the pre-war average. This is largely due to the drop in British takings, which are now less than half the pre-war level. The Netherlands has shifted from a net importer to a net exporter of oil, while France and Germany, formerly net exporters, are now net importers.

Decreases from the pre-war volume of European trade in edible vegetable oils may be accounted for partly by the competition of low-priced American pork and pork products in European markets. During the fiscal year ending June 30, 1922, more than 689,000 gross tons of American pork and pork products were exported from the United States, principally to Europe which was 248,000 tons more than average annual pre-war exports from this country.

Under the circumstances above outlined the current demand in foreign markets for American vegetable oils and their products is limited. In the domestic market the foremost competition which cottonseed oil faces is from lard and other animal fats; in foreign markets it meets not only with these but also with the output of European vegetable oil crushers. The future of the industry depends largely on its ability to lower costs of operation to a point where this competition can be successfully met.

Senator Smith of South Carolina discovered last week that although he was successful last year in having added to the free list in the Tariff white arsenic, the basic poison of calcium arsenate, the substance is subject to a duty when imported in compound from abroad. The bill failed to provide for free entry of chemical compounds, and as a result the Senator was told by the Tariff Commission that calcium arsenate would be taxed 25 per cent. ad valorem.

The increase in earnings in the chemical industries, which began late as compared with other industries continued in December, says New York State Industrial Commissioner Sayer. Earnings rose in the manufacture of drugs, industrial chemicals, linseed and other oils, glue and matches. A large increase in earnings in the soap and perfume factories was the result of the Christmas demand. Earnings went lower in factories making fertilizers.

## GOVERNMENT HELPS CHEMICAL EXPORT TRADE BY NEW STATISTICAL METHODS

**Foreign Business in Leading Products in 1922 Compared with 1921—Many Exports, Formerly Stated in Terms of Dollars, Now Available in Quantity Figures—Report of U. S. Chamber of Commerce Committee**

The year 1923 should see the Government's new statistical machinery for dealing with export and import figures more efficient than it has ever been before, says the report of the Foreign Commerce Department of the Chamber of Commerce of the United States. The report covers the January-September period, 1922, and says greater care in selection of products, whose statistical movements are covered, is shown in the Government lists, and many exports formerly stated in terms of dollars, only, now are available in quantity figures. The first use of quantity figures brought to light glaring inaccuracies in filling out export declarations.

The committee of the U. S. Chamber of Commerce is conferring constantly with officials of the Government and pointing out the nature of the trade information valuable to merchants and manufacturers. On the committee are leading exporters and bankers with years of practical experience in foreign trade. Exports for the first nine months of 1922 showed a decline of 23 per cent in value, when compared with the same period in 1921, probably in part due to the decline in prices. The imports for January-September made a gain of 16 per cent. Among the exports which increased in value in 1922 over 1921 were medicinal and pharmaceutical preparations, and fertilizers. The value of medicinals and allied products exported during 1922 was \$10,566,000. Exports of zinc slabs and blocks increased 1,290 per cent in 1922 over 1921; chloride of lime 146 per cent. Decreases included cottonseed oil 79 per cent. The exports of cottonseed oil to the Netherlands dropped from 90,000,000 pounds in 1921 to 426,000 pounds in 1922; and to Great Britain from 14,000,000 pounds to 172,000 pounds. South America took increased quantities in 1922. Compared with 1913 exports zinc slabs and blocks increased 223 per cent in 1922; lubricating oil increased 65 per cent; but, compared with 1913, exports of cottonseed oil decreased in quantity 77 per cent in 1922; and fertilizers 39 per cent.

Sulfur exports during the January-September period, 1922, amounted to 910,672,000 pounds compared with 473,850,000 pounds in 1921, a gain of 92.3 per cent; fertilizers 1,585,244,000 pounds in 1922, against 1,494,134,000 in 1921, a gain of 6.1 per cent; rosin 300,890,000 pounds in 1922, against 178,444,000, a gain of 68.6 per cent; paraffin wax 207,350,000 pounds in 1922, against 149,878,000 pounds in 1921, a gain of 38.4 per cent; caustic soda exports in 1922 were 115,952,000 pounds compared with 26,810,000 pounds in 1921, an increase of 332.5 per cent; chloride of lime 29,651,000 pounds in 1922, against 12,045,000 in 1921, showing a gain of 146.2 per cent.

Comparisons of 1922 exports with 1921 are favorable when one considers the abnormally high prices in the early part of 1921. More than half the export trade of the United States is concentrated in five countries—Great Britain, Canada, Germany, France and Japan. Three-fourths of the export trade is confined to ten countries—the five mentioned and Italy, Cuba, the Netherlands, Mexico and China.

When the imports are analyzed some extremely interesting figures are available on products of very general use in the United States. Twenty countries out

of 110 furnish 85 per cent of the imports, and five countries furnish 50 per cent—Canada, Japan, Great Britain, Cuba and France. Mexico, China, Germany, Brazil, and the Straits Settlements are next on the list in the order named. The import figures on products of interest to chemical, dye and drug manufacturers are as follows:

Commodity	January-September 1922 — 1921		Per Cent Inc. + Dec. —
	Pounds	Pounds	
Fertilizers .....	1,391,770,000	425,531,000	+ 227.1
Manganese Ore and Oxide..	733,683,000	764,006,000	— 4.0
Nitrate of soda.....	724,432,000	750,241,000	— 3.4
Flaxseed .....	606,423,000	481,423,000	+ 25.8
Sulfur ore as pyrites.....	382,464,000	319,484,000	+ 19.7
Crude cocoa .....	284,287,000	251,128,000	+ 13.2
Unpurified magnesite .....	251,236,000	95,169,000	+ 163.9
Copra .....	199,387,000	148,527,000	+ 34.2
Cork wood .....	191,520,000	73,877,000	+ 159.2
Asphaltum and bitumen.....	188,236,000	214,131,000	— 12.1
Unmanufactured chalk .....	186,408,000	86,457,000	+ 115.6
Salt .....	183,503,000	136,102,000	+ 34.3
Coconut oil .....	158,584,000	156,282,000	+ 16.4
Linseed oil .....	140,581,000	23,375,000	+ 501.2
Tanning extracts .....	96,252,000	127,404,000	— 32.3
Quebracho wood .....	79,551,000	14,665,000	+ 442.4
Dyewoods .....	77,412,000	58,802,000	+ 31.4
Copper ore, concentrates, matte .....	75,532,000	72,212,000	+ 4.6
Sago, tapioca .....	72,164,000	34,968,000	+ 106.3
Oil cake .....	62,797,000	68,460,000	— 8.3
Chinese nut oil.....	62,775,000	16,132,000	+ 289.1
Spices .....	62,739,000	45,372,000	+ 38.3
Castor beans .....	58,434,000	24,769,000	+ 135.9
Calcium acetate, calcium chloride, calcium nitrate, carbide .....	52,377,000	74,617,000	— 29.8
Licorice root .....	46,218,000	38,486,000	+ 20.0
Edible olive oil .....	41,176,000	37,324,000	+ 18.4
Cod and other animal oils..	42,899,000	15,629,000	+ 174.5
Palm oil .....	37,178,000	18,688,000	+ 98.9
Crude and scrap aluminum. Potash, except muriate and sulfate .....	31,433,000	26,178,000	+ 20.3
Shellac .....	30,931,000	34,895,000	— 11.3
	18,953,000	19,490,000	— 2.7

## OUTPUT OF CLEANSERS \$23,000,000

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 31.—The value of products of establishments engaged primarily in the manufacture of cleansing and polishing preparations amounted to \$23,084,000 in 1921 as compared with \$26,703,000 in 1919 and \$9,152,000 in 1914, a decrease of 13.6 per cent from 1919 to 1921, but an increase of 152.2 per cent for the seven year period 1914 to 1921, according to the Census Bureau.

Of the 278 establishments reporting products valued at \$5,000 and over in 1921, were located in New York; 37 in Pennsylvania; 34 in Illinois; 26 in Ohio; 23 in Massachusetts; 19 in Missouri; 13 in California; 12 in New Jersey; 10 in Michigan; 8 in Indiana; 7 each in Texas and Wisconsin; 5 in Connecticut; 4 each in Minnesota and Tennessee; 3 each in Colorado, Georgia, Iowa, New Hampshire, and Utah; 2 each in Maine, Maryland, North Carolina, and Oklahoma; and 1 each in Alabama, Arkansas, Kansas, Kentucky, Louisiana, Nebraska, and Washington.

The Burnham Chemical Co., of Reno, Nevada, has issued a pamphlet on borax, with special reference to the Searles Lake deposits, on a section of which the Burnham Company has obtained a lease from the Government. The pamphlet covers the early discoveries in Death Valley, the development work of the pioneers and the Burnham Company's investment of \$161,000, its patents covering a new process for recovering borax and other chemicals.

The Government suit against the Chemical Foundation has been set for April 23, at Wilmington, Del. The suit will decide the ownership of some 5,000 German chemical and dye patents, which were sold to the Chemical Foundation during the war by the Alien Property Custodian.

## Swiss Dye Trade Hurt By Embargoes

In a report on the Swiss dye trade for 1921, submitted to the Department of Commerce by Consul Philip Holland, at Basel, Switzerland, it is stated that business was generally bad. A loss of 68%, it is said, occurred in comparison with the prosperous year 1920. Permanent and temporary measures of protection in England, the United States, Italy, Spain and Germany, struck vitally at the Basel dye industry. The effect of the depression of the German mark, resulting in cheaper dye production in Germany, was to make Swiss competition difficult. The gratitude in the form of orders, which the Basel manufacturers expected from the London Board of Trade in return for their having yielded almost their entire output to England during the war, proved very illusive and instead of unrestricted Swiss dye exports to England, the manufacturers were confronted with a refractory licensing committee.

At the same time Reparation-dyes were being sold in France and England at prices impossible for the Swiss manufacturer to meet. The United States proved a steadier friend to the Basel industry, taking dyes to the value of \$2,181,000 in 1921, as against \$3,181,000 in 1920 a loss of only 31%.

Germany closed her markets almost entirely to the Swiss dyes and then supplied the Swiss market with German dyes. In 1921, Germany exported to Switzerland 175 metric tons valued at \$258,000, a large amount for so small a country, and imported from Switzerland 6 tons of dyes valued at \$17,000.

The protective measures of France and Spain reduced materially the Swiss dye exports to those countries. In 1920 France took Swiss dyes to the value of \$9,503,000, and in 1921, \$2,487,000. The trade with Spain amounted to \$878,000 in 1920, and \$321,000 in 1921.

The Swiss dye exports to Mexico, Argentina and Brazil amounted to \$1,946,000 in 1920 and \$140,000 in 1921.

The dye trade with the Far East held up fairly well, but was somewhat capricious. China imported Swiss dyes, exclusive of synthetic indigo, to the value of \$482,000 in 1920, and to \$83,000 in 1921 and synthetic indigo to the value of \$2,581,000 in 1920, and \$1,251,000 in 1921. Japan imported Swiss dyes, exclusive of synthetic indigo, to the value of \$779,000 in 1920, and \$468,000 in 1921, and synthetic indigo to the value of \$103,000 in 1920, and \$383,000 in 1921.

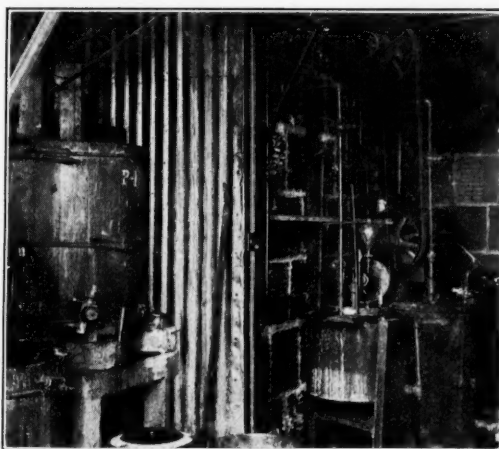
In the latter part of 1921 China placed heavy orders for synthetic indigo to be delivered in 1922, but appeared to lose interest in other colors, while Japan's orders for ordinary dyes for 1922 deliveries were normal and were considerably increased for synthetic indigo. The great Swiss synthetic indigo factory at Montney is now sending almost its entire output, but very much reduced to the Far East.

The Swiss dye industry is encompassed with difficulties. In addition to outside conditions affecting its trade, there are almost insurmountable difficulties at home, the chief of which is the high cost of labor.

The Basel dye manufacturers joined together in mutual interest and built factories in Clayton, Eng., and Norwood, O. They found themselves unable to compete in bulk dyes with either the American or the English manufacturers, hence they ran their factories at a loss. Realizing that the Swiss dye trade with the United States is passing, the directors of the Swiss dye factories are now in the United States looking actively after their interests in the Norwood factory.

## "Pilot" Plant Points the Way in Manufacture of Dyes

In the dye industry, with its more than three hundred intermediates and over one thousand commercially used dyestuffs, minute details and favorable conditions of manufacture must be worked out before any product is made commercially. The main work of this kind is performed in the laboratory, perhaps working with less than 100 grams of material. But processes which work favorably in the laboratory will fail completely when taken directly to the plant, unless modified or altered, as conditions in the laboratory are in some instances entirely different from those obtaining in large scale production. The Dye Products and Chemical Co., of Newark, N. J., has built a "semi-works" or pilot plant where the chemists can work with conditions more closely duplicating



Dye Products and Chemical Co.'s "Semi-Works"

plant scale operations, but where the quantities of material used are small enough to permit of economy and experimentation, yet large enough to obtain significant results.

It is also in the semi-works where processes are more closely studied with a view to improving the efficiency of the methods or the quality of the product. Here also it is sometimes possible to eliminate or alter cumbersome or expensive steps in a process and to substitute a simplified procedure. The pilot plant of the Dye Products and Chemical Co. at Newark has become an indispensable part of the plant.

It is here that the chemist combines the theory of laboratory with the practice of the industrial plant in solving the many complex problems which confront the makers of American dyes.



### NEW SOURCES FOR CALCIUM ARSENATE

Dr. Miller Reese Hutchison, who is managing the boll weevil campaign for the American Cotton Association, says: "The publicity that has been laudably given this campaign for the control of the boll weevil has brought out some very interesting and heretofore unknown and (or) unconsidered resources. Among them are several processes for the manufacture of calcium arsenate, which do not require the white arsenic of commerce. It is from such sources that the tonnage, in excess of that pronounced available by governmental and other agencies, will be secured."

"In view of the low prices at which white arsenic and calcium arsenate were available to insecticide manufacturers only a few months ago it is to be inferred that those who were far-sighted enough to visualize the extent to which calcium arsenate would be required to combat the boll weevil in 1923 purchased all available supplies. If such is the case a price of 15c a pound to the farmer should show an adequate profit on the investment."

### COUNTERVAILING DUTY ON ARSENATE

Washington, Jan. 31.—Instructions for the assessment of countervailing duties on imports of calcium acetate have been issued to collectors of customs by the Treasury, which listed the duties imposed on calcium acetate in various countries as follows: Belgium, free; Germany, 1 gold mark per 100 kilos; Hongkong free; Japan, .41 gold yen per 100 kin; Mexico, .07 gold pesos per kilo, plus additional surtaxes amounting to 12 per cent of the duty; Netherlands, free; Norway, free; Panama, 15 per cent ad valorem; Sweden, acetate of lime, raw or purified, .03 gold crowns per kilo; United Kingdom, 11 1-3 per cent ad valorem.

Arsenic at 8 cents and Calcium Arsenate at 12 cents appeared high last year when, in reality, these prices were ridiculously low predicated upon financial conditions, says F. Morgenstein, of New York. Today 15 cents for Arsenic and 18 cents for Calcium Arsenate may likewise seem high, but when Spring orders for insecticides make their appearance, they will no doubt be low. The inexorable, immutable law of supply and demand will then operate with a certainty which will completely ignore earlier price levels.

An investigation of the calcium arsenate industry by the Federal Trade Commission was ordered last week, by the Senate in adopting a resolution by Senator Fletcher, Democrat, of Florida. The commission was directed to report whether there was any violation of the anti-trust laws in the manufacture or distribution of calcium arsenate used in fighting the cotton boll weevil.

The Sherwin-Williams Co. will make application to the New York Stock Exchange for permission to list the \$15,000,000 first preferred stock of the company. In addition to the preferred stock the company has outstanding \$14,873,125 common stock of \$25 a share par value, the par value having recently been reduced from \$100. Both classes of stock are now traded in on the Cleveland Stock Exchange.

According to the monthly report of the Trade of Canada for November the value of imports of drugs, medicinal and pharmaceutical preparations was as follows: From Great Britain, \$86,784; United States, \$108,841; other countries, \$38,072; total, \$233,697; compared with imports in November 1921, from Great Britain, \$75,144; United States, \$135,957; other countries, \$26,428; total, \$237,529.

### WILL WORK NEW IDRIA MINES AGAIN

The New Idria Quicksilver Mines, Inc., of Boston, has been incorporated under the laws of Massachusetts with authorized capital stock of 30,000 shares of 8 per cent non-cumulative preferred, \$10 par, and 35,000 shares of common of no par value. These are to be presently issued, three shares of common for services, and 24,000 shares of preferred and 34,997 shares of common for stocks and securities.

The New Idria Mines, Inc., of Boston and Idria, Calif., has also been incorporated, with authorized capital of 1,000 shares of common of no par. There are to be issued three shares for services, sixty-one shares for cash, and 936 for real estate, namely, 122.6 acres in San Benito and Fresno counties, California, book value \$939,314; other land 5,000 acres, \$10,000, and personal property, consisting of machinery, \$10,000 and merchandise \$4,000. The above are conveyed to this company by the New Idria Quicksilver Mining Co., subject to its debts, estimated at \$248,000.

Incorporators of both companies are Dudley H. Dorr, president; Harry P. Baker, treasurer; and Graf-ton L. Wilson.

The consolidated statement of income of the American Smelting & Refining Co. for the 11 months ended Nov. 30, last, shows total net earnings of \$12,728,727; total income \$12,858,638; net income after deductions, \$5,431,039; surplus after dividends, etc., \$1,694,037. The consolidated balance sheet as of Nov. 30, last, shows cash of \$8,794,306; notes receivable \$138,207; accounts receivable \$9,969,770; materials and supplies \$5,926,048; metal stock \$37,286,811; accounts and wages payable \$9,478,729; profit and loss surplus \$22,016,114, and total assets and liabilities \$196,629,204.

Dr. Herman Heuser, Chicago bottler, is charged by the Federal Trade Commission with threatening to sue a competitor for alleged violation of a patented process in manufacturing a non-alcoholic beverage. The threats are said to have been made in bad faith and evidently worked considerable harm to the competitor's business.

The White Tar Aniline Corp., 56 Vesey st., New York, obtained a judgment of \$1,640.60 against the Lazard, Godchaux Co., of America, Inc., last week. The sum covers damages suffered by the plaintiff when the defendant failed to deliver 5,000 lbs. of auramine, in Dec., 1919, after an order for same had been accepted.

The Chipman Chemical Engineering Co., 136 Liberty st., New York, has issued to its present stockholders 6,000 shares of common stock, no par value, to replace \$300,000 worth of debenture bonds and 200,000 shares of common stock, par value \$100 per share, now outstanding.

The Shelby Chemical Co., Shelby, Ala., capitalized at \$500,000, filed a voluntary petition in bankruptcy, last week, listing assets at \$569,410.30 and liabilities at \$279,804.88. At a special stockholders' meeting a resolution was passed declaring the firm unable to pay its debts.

Canada's fertilizer imports during November, 1922, were valued at \$143,915, of which \$114,000 worth was from the United States. In November, 1921, the total imports were valued at \$265,341, of which \$256,699 worth was from the United States.

The American Smelting & Refining Co. listed \$7,500,000 worth of first mortgage thirty-year 5 per cent gold bonds, Series A, on the New York Stock Exchange last week.



## QUOTATIONS ON CHEMICAL STOCKS

	Bid	Asked		Bid	Asked
Air Reduction .....	58½	59	Hercules Powder.....	102	104
*Allied Chem. & D. 74	74½		Heyden Chem .....	24	24½
*Allied Ch. & D., pf. 108	110½		Hooker Electro .....	55	65
Am. Ag. Ch. ....	30	30½	Hooker Electro, pf. 60	70	
*Am. Ag. Ch., pf. ....	58¼	59¼	*Int. Agricult. ....	8	8¼
*Am. Chicle .....	5¼	6¼	*Int. Agricult., pf. 32	33	
*Am. Chicle, pf. ....	23		*Int. Nickel .....	147½	15
*Am. Cot. Oil. ....	16	16½	*Int. Nickel, pf. ....	70	74
*Am. Cot. Oil, pf. ....	32	33	*Int. Salt .....	79½	
*Am. Cyan. ....	15	20	*Mathieson Alk. ....	51	51½
*Am. Cyan., pf. ....	53	56	Merck & Co., pf. ....	85½	87
*Am. Druggist S. ....	6½	6¾	Merrimac .....	88	88
Am. Glue .....	82	85	Mulford Co. ....	35	40
Am. Glue, pf. ....	124	126½	Mutual Co. ....	150	
*Am. Linseed .....	31½	32	*National Lead .....	124½	125½
*Am. Linseed, pf. ....	53	55	*National Lead, pf. 112½	113½	
*Am. Malt .....	12	13	N. J. Zinc .....	170	172
*Am. Zinc .....	14½	15	Niag. A., pf. ....	96	100
*Amer. Zinc, pf. ....	48	50	Parke, Davis & Co. 72½	74	
Atlas Powder .....	155	165	Penn. Salt .....	82	83
Atlas Powd., pf. ....	85¼	90	People's Gas, Chi. 92½	92¼	
British Am. Chem. 1			Procter & Gamble. 124	128	
By. Prod. Co. ....	57	65	Procter & Gam., pf. 102	106	
Carborundum .....	138	135½	Royal Bak. Po. ....	123	128
Carborundum, pf. ....	115½	116	Royal Bak. Po., pf. 99	101	
Casein Co. ....	30	45	Sherwin-Williams ..	209½	210
Celluloid Co. ....	92	98	Sherwin-W., pf. ....	93	97
Celluloid Co., pf. ....	109	110	Stand. Ch. ....	90	100
Ches. Mfg. ....	215	225	Swan & Finch. ....	23	25
Ches. Mfg., pf. ....	111	115	*Tenn. C. & Chem. 11½	12	
Com'l Solv. A. ....	42½	43	*Tex. Gulf, Sul. ....	61¾	62
Do B. ....	29	32½	Union Carbide .....	63	63¾
*Corn. Products .....	128½	129	Union Sulphur .....		
*Corn Products, pf. 120	122		*Un. Drug .....	80	82
*Davison Chem. ....	30½	31	*Un. Drug, 1st pf. ....	46¾	46½
Dow Chem. ....		200	*Un. Dyewood .....	42	94½
Dow Ch., pf. ....	103		*Un. Dyewood, pf. ....	50½	51
Du Pont de Nem. 110	111		Un. Gas, Imp. ....	56½	57
*Du P't de Nem. Db. 85¼	85½		U. S. Gypsum. ....	62½	63
Eastman Kodak .....	95½	96	*U. S. Indus. Al. ....	64	64½
Eastman Kodak, pf. 110			*U. S. Indus. Al., pf. 96¼	98	
*Freep. Tex. Sul. 20	20½		*Va.-Car. Ch. ....	23½	24½
*Freep. Tex. Sul., pf. 91	93		*Va.-Car. Ch., pf. ....	61½	62
*Grasselli .....	128	132	*V. Vivaudou .....	17½	17½
*Grasselli, pf. ....	100	101½			

\*Listed on New York Stock Exchange

Well-sustained business and industrial activity is shown by figures compiled by the Department of Commerce through the Bureau of the Census in its "Survey of Current Business," covering the month of December. In many instances increases were noted over the preceding month, although there is usually a let-up in industrial movements in December. The improvement in the transportation situation enabled heavier shipments to be made in many commodities. A bright outlook for the immediate future, so far as domestic trade and industry is concerned, is seen by the Department of Commerce in these statistics. The disturbed foreign situation has so far appeared to have but little effect upon such delicate indicators of industrial and commercial health as the stock and bond market.

The report of the Coca-Cola Co. for the quarter ended December 31, 1922 showed net income of \$960,141 after expenses but before Federal taxes, equivalent after preferred dividends to \$1.57 a share earned on the 500,000 shares of no par common stock. This compares with a net income of \$2,464,767 or \$4.57 a share earned on the common stock in the previous quarter. The net income for the year ended December 31, 1922, amounted to \$7,148,459, equivalent after preferred dividends to \$12.89 a share earned on the common stock. The quarterly statement showed gross receipts of \$3,963,899, manufacturing and general expenses \$2,952,384, operating profit \$1,011,515, miscellaneous deductions \$51,374, net income, before Federal taxes, \$960,141.

The Alpha Piece Dye Works, of Paterson, N. J., was declared to be a going concern by Vice Chancellor Church, of Newark, at a hearing last week, and not insolvent. The receivership proceedings instituted by William F. Bal Company were dismissed. Mr. Ugnon, president of the corporation, stated that the company's plant is now running to full capacity.

## Financial Notes

The National Lead Co., has declared the regular preferred dividend of 1¼% payable March 15 to stock of record Feb. 23.

The General Asphalt Co., has declared the regular quarterly dividend of 1¼% on the preferred stock; payable March 1 to stock of record Feb. 23.

The American Smelting and Refining Co., has applied to the New York Stock Exchange for listing of \$7,500,000 additional first mortgage 5 per cent thirty-year gold bonds, series "A," due April 1, 1947.

The directors of V. Vivaudou, Inc., have declared a dividend of 50 cents a share, payable March 2, to holders of record Feb. 19. This is the first distribution on the issue since Jan. 3, 1921, when a payment of 25c a share was made.

The Glidden Co., of Cleveland, reports for the year ended Dec. 31, last, net sales of \$14,113,404, against \$13,916,506 in 1921 and a net profit after depreciation, etc., of \$192,724, contrasted with a deficit of \$2,615,292 in previous year.

The American Metal Co., has declared the usual quarterly dividends of 75c a share on the common stock and \$1.75 a share on the preferred. Common dividend is payable March 1 to holders of record Feb. 15 and preferred on March 1 to holders of record Feb. 17.

An issue of \$200,000 ten-year, 8 per cent debenture bonds of the Commercial Chemical Co. of Tennessee, is being offered by Jelke, Hood & Co., of New York, at par and interest. The company is engaged in the manufacture and sale of chemical insecticides for agricultural and domestic use.

Application has been made to list on the New York Stock Exchange 251,000 shares of common stock without par value of the Coca-Cola International Corporation, to be exchanged share for share for the stock of the Coca-Cola Co., giving the International company control of the Southern company.

Directors of the Texas Gulf Sulphur Co. are scheduled to meet for dividend action the latter part of February. Stockholders expect to receive the same distribution as on December 15, when \$1.25 regular quarterly and 75c. extra were declared. Earnings of the corporation are showing substantial gains over a year ago and the indications are said to favor total revenues for the first quarter of 1923, not only larger than a year ago but probably in excess of any similar period in the history of the company.

## New Incorporations

United Scientific Co., 410 Jefferson st., Milwaukee, Wis., \$10,000. To do a general wholesale drug and chemical business. J. McCarthy, E. C. Daroni, F. McCarthy.

Charex Chemical Co., Rochester, N. Y., \$25,000. To deal in charcoal and chemicals. H. C. and H. M. Williamson, C. E. Bostwick, Rochester; attorney C. E. Bostwick, Rochester.

Crane Drug and Chemical Co., Boston, \$10,000. S. Fleigalman, Everett, Mass., S. M. Fainzin, Mattapan, Mass., H. N. Guterman, Dorchester, Mass.

Chex Products Corp., New York, \$250,000. To make toilet articles. V. Prager, 419 W. 139th st., New York; Corporation Trust Co., 37 Wall st.

Co-operative Drug Stores Corp., 15 Exchange Pl., Jersey City, \$750,000. Corporation Trust Co., 37 Wall st., New York.

# The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 288

## SODA AND POTASH SALTS HIGHER

**Oxalic Acid Lower on Strong Competition—Metal Markets Advancing on Higher Prices for Copper and Lead—Transportation Difficulties Hamper Manufacturers**

### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Potassium Carb., 96-98 p.c., ¼ lb. Sodium Prussiate, yel., ¼ lb.	Advanced
	Declined
Acid, Oxalic, ¼ lb.	
Ammonium Chloride, lump, 1c lb.	
Arsenic, white, ¼ lb.	

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial....lb.	\$12	\$12	\$12	\$9	\$19½	\$7
Sulfuric Acid, 66 deg. ton	14.00	14.00	14.00	16.50	55.00	20.00
Bleaching Powder,						
Works.....100 lb.	2.00	2.00	2.00	2.25	9.50	1.50
Copper Sulfate.....100 lbs.	6.00	6.00	6.00	5.55	20.00	4.50
Potash Caustic.....lb.	.07	.07	.06½	.06	.87	.08
Saltpetre, gran.....lb.	.07½	.07½	.07½	.07¾	.35½	.04½
Soda Ash, 58 p.c....100 lbs.	1.80	1.80	1.80	1.75	3.50	.60
Caustic Soda, 76 p.c.100 lbs.	3.55	3.55	3.55	3.60	9.50	1.42
Potassium Bichromate..lb.	.10	.10	.10	.10	.65	.06½
Average.....	3.068	3.068	3.068	3.319	11.06	3.14

Business in heavy chemicals has not shown the recovery during the first month of the new year that was expected. A short spurt was noticed last week, but this week opened up slowly with buying along moderate lines. Prices on the whole are firm and the tendency is upward. Transportation difficulties continue to hamper domestic manufacturers. The situation abroad is receiving considerable attention in the trade and the general feeling is that imports will be restricted and prices will advance, though it may be a month or so before the market will be affected. The metal market has been very strong during the week with advances in copper, lead and tin. Arsenic is becoming stronger after a short period of easiness. Prussiate of soda is much stronger and prices are advancing. Prussiates of potash are firm. Caustic potash is higher for shipment than present spot prices. Potassium carbonate is higher. Oxalic acid is lower on strong competition. Copper sulfate is moving well with buyers coming into the market earlier this year than last. Bleach is moving in good quantities. Caustic soda is in stronger export demand. Acetone offerings are not plentiful. Alums are moving steadily. Insecticides are in strong demand.

**Acid, Acetic**—Demand is confined to moderate quantities with some improvement noted during the past few weeks. Large producers continue to quote prices on the basis of \$3.17½@ \$3.42½ per 100lbs for 28 per cent as to quantity at works. 56 per cent quoted at \$6.35@ \$6.60. 70 per cent at \$7.94@ \$8.19. 80 per cent at \$9.08@ \$10.85. Glacial, \$12.05@ \$12.80.

**Acid, Muriatic**—Makers are fairly well sold on contracts for deliveries over the next few months while spot business is quiet or along moderate lines. 18 degree acid is quoted at range from 90c@ \$1.00 per 100lbs in tanks at works. Carboys at \$1.00@ \$1.10 in carlots. 20 degree acid in tanks at \$1.00@ \$1.10. Carboys \$1.10@ \$1.50. 22 degree in carlots of carboys at \$1.75@ \$2.00 per 100lbs. Iron-free 20 degree held at \$1.35 in carboys.

**Acid, Nitric**—There is practically no change in the market and buying is routine on spot while some con-

tract business has been placed. In carlots 38 degree is named at \$4.50@ \$4.75 per 100lbs at works. 42 degree in carlots \$5.75@ \$6.00. 44 degree \$6.50@ \$7.00.

**Acid, Oxalic**—Prices are lower on strong competition between importers and domestic producers. Domestic producers quote 12½c at works. Importers are quoting 13c@ 13¼c lb on spot.

**Acid, Sulfuric**—Makers state business has been active for contracts covering the first six months of the year. Spot business, however, is small and confined to short orders. 60 degree acid is named at \$9 to \$11 per ton in tanks at works as to seller. 66 degree acid held at \$14@ \$16 per ton. Oleum in tanks, \$17@ \$18.

**Acetone**—Offerings are somewhat limited in first hands and practically none is to be had from second hands. Quotations are still on the basis of 21c lb in carlots and 21½c lb in smaller quantities. Seconds are higher at 25c lb.

**Alums**—Moving well with makers fairly well supplied with stocks to take care of the demand. Imported material is offered in good supply. Domestic makers name ammonia lump at \$3.50@ \$3.65 per 100lbs. Ground at \$3.65@ \$3.75. Powdered at \$3.90@ \$4.00. Imported lump at \$3.25. Potash lump at \$3.00@ \$3.25 by importers. Ground, \$3.25@ \$3.50. Chrome, \$5.50@ \$6.60. Soda, \$3.50@ \$4.00.

**Aluminum Sulfate**—Consumption is along steady lines with producers quoting on the old basis of \$2.50 @ \$2.65 for iron-free in carlots. Imported named at \$2.50@ \$2.60. Commercial in bags at \$1.45@ \$1.50 at works. Barrels 15c higher.

**Ammonium Chloride**—Quiet conditions exist in the market. Domestic makers are naming white in carlots of barrels at 7¼c lb at works. Spot at 8c lb. Imported held at 6¼c@ 7c lb. Gray imported at 7¾c@ 8¼c lb. Domestic at works 8c@ 8½c lb. Lump named at 14c@ 15c lb.

**Arsenic**—Stronger after a short period of weakness and is now quoted at 15c@ 15½c lb. No new developments have taken place in the market as to increases in supplies but consumers have been showing a disposition to hold off at the present prices. This is probably the reason for the easiness of last week.

**Barium Chloride**—Demand has been slow and domestic producers continue to quote \$90@ \$95 per ton at works. Imported material selling at \$92.50@ \$95.

**Barium Carbonate**—Quiet with imported at \$70 per ton and \$75 at works.

**Bleaching Powder**—Supplies are easier to obtain in some directions while others report a sold up condition. Spot goods held at \$2.25@ \$2.50. On contract at works at \$1.90@ \$2.00 as to maker. Imported at \$2.15@ \$2.25.

**Copper Sulfate**—Buyers have been coming into the market somewhat earlier this season and the market remains firm. The recent advances in copper have had a strengthening effect. Domestic makers quote 6c@ 6¼c lb according to quantity. Imported held at \$5.60@ \$5.75.

**Copperas**—Supplies still scarce, though little change in prices. Bulk at works at \$20@ \$21 per ton. Bags at \$23 and barrels at \$25 in carlots.

**Potash, Caustic**—The market is becoming stronger with the trend of the situation abroad. Shipment prices

are said to be  $7\frac{1}{2}c@7\frac{1}{2}clb$ . Spot prices at  $7c@7\frac{1}{4}clb$ . Carbonate is firm with an advance in 96-98 per cent to  $7\frac{1}{2}c@7\frac{1}{2}clb$ .

**Potassium Prussiate**—The yellow is firm on routine demand at  $38c@39clb$ , though this may be shaded to  $37\frac{1}{2}clb$  in some directions. The red is steady at  $85c@90clb$ .

**Soda Ash**—Demand has been in steady volume with no changes in makers' schedule of prices. Spot is held at  $\$1.75@\$2.01$  as to seller and quantity on spot. Contract on old basis of  $\$1.20$  for 48 per cent in carlots of bags at works.

**Soda Caustic**—In steady demand in the domestic trade and export business improving. Spot and export range from  $\$3.30@\$3.72$  as to seller and brand. Contracts unchanged at  $\$2.50$  for 60 per cent at works.

**Sodium Prussiate**—Market is much stronger and prices less than  $19clb$  could not be located. Quoted at range from  $19c@19\frac{1}{4}clb$ .

### METAL PRICES GOING UP

A world wide shortage of lead resulting from the increased demand for this metal during the latter half of 1922 sent the price up  $\$10$  per ton last week. The consumption of lead has been unusually heavy. The building boom has consumed large quantities. Tin has reached the highest price level since October, 1920, when Straits touched  $40\frac{1}{2}c$  per pound on spot. Delays in arrival of shipments from the Orient have made the spot market strong. Standard tin is up to  $39\frac{3}{4}c$ . 99 per cent also higher at  $39\frac{1}{2}c$ . Copper has been improving daily due to the fact that supplies are becoming less plentiful on spot. Large producers advanced the price to  $15c$  per pound and will not sell beyond April. Lake is now quoted on spot at  $15\frac{1}{2}c@15\frac{1}{4}c$ . Electrolytic,  $15@15\frac{1}{2}$ . Casting, refinery,  $14\frac{1}{2}c@14\frac{3}{4}c$ . Zinc prices advanced  $\$2.00$  per ton and now stand at  $\$7.35@\$7.40$  per 100lbs.

### CUBA BUYS SULFURIC ACID AND BLEACH

(Special to Drug & Chemical Markets)

Washington, D. C., Jan. 31.—Exports of sulfuric acid in November were 512,997 pounds, valued at  $\$12,881$ ; copper sulfate, 185,216 pounds, valued at  $\$10,125$ ; bleaching powder, 3,784,054 pounds valued at  $\$65,201$ . The heaviest shipments of sulfuric acid were to Canada, 58,794 pounds; Mexico, 126,528 pounds; Cuba, 231,752 pounds; Peru, 32,208 pounds.

Canada took nearly 2,500,000 pounds of bleaching powder; Cuba, 141,567 pounds; China, 33,436 pounds.

### JAPAN BUYING ACETATE OF LIME

(Special to Drug & Chemical Markets)

Washington, D. C., Jan. 31.—Exports of wood alcohol during November amounted to 137,700 gallons, valued at  $\$94,792$ ; formaldehyde, 138,710 pounds, valued at  $\$16,442$ , and acetate of lime, 732,731 pounds, valued at  $\$21,375$ . Wood alcohol was shipped mainly to Germany, The Netherlands and England, which also took the largest consignments of formaldehyde. Japan took 683,639 pounds of acetate of lime and England took 48,385 pounds.

The vaporizing department at the Nixon Nitration Work's plant near New Brunswick, N. J., was destroyed by fire Jan. 26. A sheet of celluloid, which was being run through a vaporizing press, burst into flames and the whole building was soon ignited. Ten employees were badly burned.

### ACCEPT FORD OFFER, SAYS BARUCH

Bernard M. Baruch, former chairman of the War Industry board, told the House agricultural committee at the hearing on the joint resolution of Representative Stevenson, of South Carolina, last week, that he opposed the measure authorizing the Secretary of Agriculture to purchase nitrate for distribution among farmers at cost, and declared the only way to combat the monopoly held by Chile, was by development of resources in this country, particularly Muscle Shoals.

In a report which Mr. Baruch later submitted to the American Farm Bureau Federation he advocated accepting the offer for Muscle Shoals made by Henry Ford some time ago. The report said it was generally agreed that a new source of nitrogen should be developed at Muscle Shoals in order to protect American agriculture and insure a supply in case of war. Three different methods for developing the proposition were presented and discussed as follows: "1. By Government development. Except as a last resort, I am opposed to this on account of its inherent disadvantages.

"2. By combination of industry either with Government co-operation or independently.

"3. By the Ford development. This apparently is the only offer that has come forward so far from a private source promising development along commercial lines. If no more advantageous offer should be made, the arguments against awarding the contract to Henry Ford would not be convincing."

In his report Mr. Baruch suggested that Mr. Ford be required to guarantee a production of at least 40,000 tons of fixed nitrogen per year, with the property reverting to the Government in case the promise should be unfulfilled.

### NEW FRENCH IMPORT RATES ON CHEMICALS

French import duties have been modified under decrees by the Inter-Ministerial Commission issued on Dec. 31. The table below shows the changes in the way of modifications of coefficients which lend themselves to tabular presentation. Changes affecting potassium and sodium salts are explained in the paragraph following the table.

Tariff No.	Articles	Coefficient of increase	
		Former	New
0118.....	Oxides of cobalt, other than impure, including zaffer and smalt.....	1	4
0119.....	Salts of cobalt, hydrated (40 per cent of water at least).....	1	4
0120.....	Salts of cobalt, other.....	1	4
0137.....	Chloride of magnesium.....	6	4
0139.....	Sulfate of magnesia.....	5	4
0208.....	Acetate of lead.....	3	4.1
0212.....	Cellulose acetate, in powder and lumps, non-plastic.....	1.8	3
0213.....	Cellulose acetate, in plates, sheets, rods, tubes, etc.....	2.5	3
0227.....	Oxalic acid.....	2.5	3.6
0228.....	Oxalates of potash.....	1	3.8
0229.....	Oxalates of iron.....	1	3.8
ex-0230.....	Citric acid, crystallized.....	1	2.4
0232.....	Citrate of ammoniacal iron, of potash, and of soda.....	1	2.4
ex-300.....	Blacks produced by calcining schist, peat, and lignite.....	3.8	3.4
319 ter.....	Dextrine and other products derived from feculae, from starches or from other amylaceous substances, not specified.....	5.8	5

Item 0114.—Bichromates and chromates of potassium and sodium are exempt from the application of the coefficient of increase 4, hitherto in effect, and to the present general rate of duty of 40 francs per 100 kilos is added a supplementary ad valorem duty of 40 per cent.

The Government sale of 28,000 tons of sodium nitrate, bids on which were to be opened at noon Jan. 30, has been postponed until Feb. 15. It is understood that bids already submitted will hold good until that time.



## The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 290

### POTASH AND AMMONIUM BROMIDES CUT

Inactive Market Coupled With Heavy Spot Stocks Forced Importers' Prices Down—American Makers Cut Citric Acid—Cod Liver Oil Easier—Potassium Permanganate Stronger—Imported Cream Tartar Again Cheaper—Market Active in Spots

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

##### Advanced

Glycerin, dyn., 1½c lb.  
Saponification, 1c lb.  
Soap, lye, 1½c lb.  
Potassium Permanganate, ½c lb.

##### Declined

Ammonium Bromide, imp., 2c lb. Cream Tartar, imp., ½c lb.  
Cod Liver Oil, 75c bbl. Potassium Bromide, imp., 1c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetanilid .....	\$3.35	\$3.35	\$3.35	\$3.33	\$2.00	\$2.20
Acid Citric, Import.....	.48½	.48½	.48	.43	1.25	.45
Caffeine Alkaloid .....	3.75	3.75	3.75	4.00	18.00	3.65
Calomel, American .....	1.25	1.25	1.25	.82	3.43	.90
Camphor, Jap., ref .....	.86	.86	.91	.92	3.55	.41
Iodine, Resublimed .....	4.50	4.50	4.50	3.80	5.00	3.75
Menthol .....	8.00	8.00	10.00	5.25	13.50	3.00
Morphine Sulfate .....	5.35	5.35	5.35	4.80	12.80	4.50
Potassium Bromide, Cryst. ....	.26	.26	.26	.19	4.80	.80
Quinine Sulfate, Imp.....	.49	.49	.50	59½	.90	.25
Sodium Salicylate .....	.52	.52	.47	.30	4.25	.27
Strychnine Sulfate .....	.84	.84	.84	1.05	2.05	.50
Average .....	2.21	2.21	2.38	1.88	5.92	1.56

The fine chemical market is active in some spots and dull in others. Some sellers report a fairly good volume of sales and others say they are doing little and do not expect improvement in conditions for the next few weeks at least. Generally speaking, the trade is still experiencing its holiday and inventory period slump, from which it will probably emerge during the next month. Prices have remained fairly steady in spite of the reduced activity, and there are few changes of importance to report. Imported ammonium and potassium bromides continue under pressure and have been reduced again. Sodium bromide is firmer and in good demand. Glycerin is reacting upward following renewal of wartime activity in Europe. C. P. goods are not yet affected but all other grades are higher. Cod liver oil eased off as buyers withdrew from the market. Potassium permanganate is firmer. Importers reduced cream tartar again. Menthol is offered at \$8.00 inside. Demand for methanol and denatured alcohol has slowed down somewhat. Small lots of small package carbolic acid available 5c below current market for immediate acceptance.

**Acid Acetylsalicylic**—Makers are holding firm at \$1.05 lb. Resellers will do 90c inside, but can offer in small lots only. Buying continues active.

**Acid Carbolic**—One distributor will do five cents below the market on small package goods but can offer in limited quantities and for immediate acceptance only. Generally the schedule is as follows: 110 lb. tins, 37c lb.; 25 lb. tins, 39c lb.; 5 lb. tins or bottles, 41c@42c lb.; 1 lb. bottles, 46c lb.; liquid, U.S.P., 1 lb. bottles, 45c lb. Buyers are not active and supplies are sufficient to fill all orders.

**Acid Citric**—American makers cut citric acid prices one cent and now quote on a basis of 49c lb. Some ci-

trates are easier in proportion. Imported citric spot at 48½c@49c lb, with a disposition to quote the latter figure on ordinary business. Stocks smaller on spot and cannot be replaced abroad at 49c New York basis.

**Acid Salicylic**—Manufacturers ask 45c for U.S.P. and 42c for technical. Resale U.S.P. in limited amounts at 37c@40c lb. Supplies are not accumulating and price appears firm in view of the stronger position of phenol.

**Acid Tartaric**—Market quiet with imported goods at 30½c@31c and domestic at 32c.

**Adeps Lanae**—Can still be had at the recently reduced prices as sellers compete for business passing. Hydrous at 21c@22c, anhydrous at 23c@24c. Consumers continue active and holders of good quality material report no difficulty in keeping their stocks moving.

**Alcohol, Denatured**—Market is quiet and makers are willing to shade prices in order to develop interest among consumers. The following schedule is in effect on bbls.: No. 1 complete, 41c@43c gal; No. 1 special, 39c@41c gal; No. 5 complete, 38c@40c gal; No. 6 complete 38c@41c gal. Drums, extra, quoted five cents per gallon lower.

**Ammonium Bromide**—Imported goods cheaper in dull market. Offered at 16c@17c lb. Reported that material cannot be brought in lower than 17c or 17½c. Stocks on spot are large. Domestic figure 33c.

**Camphor**—Jap slabs continue rather weak at 86c@88c lb., as to quantity and seller. Small sizes \$1.00@\$1.02. American refiners quote bulk gum in bbls. nominally at 96c. Trading slow and sales spotty.

**Cod Liver Oil**—Norwegian oil reduced to \$21.75@ \$23.00 per bbl. spot. Demand has eased off somewhat and plenty of material is available.

**Cream Tartar**—Imported cream tartar again lower at 23c@24c lb. as to quantity and seller. Spot stocks heavy and buyers inactive. Domestic goods quoted at 25½c.

**Glycerin**—Holders of crude glycerin have practically withdrawn from the market as warlike activities increase abroad. Dynamite, saponification and soap lye advanced and are firmly held at 17¾c, 13c and 12c, respectively. C.P. goods have not been affected as yet and drums can still be had at 18½c lb. If crude holds its firmer tone C.P. will probably go higher.

**Hexamethylene**—Quoted openly at 80c and an order would probably uncover a 75c price. Domestic figure 95c unchanged. Heavy stocks of foreign made goods continue to depress the market.

**Menthol**—Cases can be had on spot at \$8.00 per pound. A sale of one distressed lot of 10 cases was put through at \$7.75 but there were no additional offers at that figure. Shipment figure varies from \$7.25 to \$7.50 c.i.f., for Feb.-Mar. Market stationery on spot with only small amount of business passing. Considerable material reported unloaded during last week's decline from \$9.00.

**Mercury**—Spot goods \$72.00@\$72.50 unchanged. Shippers ask \$69.00@\$70.00 laid down, as to quantity. Routine trading featured market during past week.

**Methanol**—Buying slow and spotty. Fair export demand for pure methyl but other grades are quiet. Schedule based on \$1.15@\$1.17 gal. for 95% grade in drums. Bbls. 5c per gallon higher.



**Potassium Bromide**—Imported grade cut to 14½¢@ 15¢lb. in dull market. Spot stocks large. Material cannot be replaced at less than 16¢ or 17¢ on basis of present shipment figures. American product 26¢.

**Potassium Permanganate**—Firm at 16¢@16½¢lb. Demand showed slight improvement.

**Sodium Bromide**—Active at 17¢@17½¢lb. for strictly U.S.P. goods. Sales reported made for shipment at 8¢ i.f.

### Fine Chemical Notes

A petition in bankruptcy has been filed by Agnes M. Leonard, Middletown, Conn., dealer in medical supplies. The firm's liabilities totaled \$4,915 as against assets of \$32.

All countries, not regarded as trade rivals of Portugal, will be free to enter merchandise at Lisbon if a bill, recently presented in Parliament, which permits free entry, is passed.

The Drug and Chemical section of the New York Board of Trade and Transportation will meet Wednesday afternoon, Feb. 7, at 3:30 p. m., to discuss changes which the members think ought to be made in the prohibition law.

The Morton Salt Co., Ludington, Mich., has purchased the salt interests of the Stearns Salt & Lumber Co. The Stearns plant, with a capacity of 500,000 barrels per annum, will be scrapped and the Morton plant, with a 1,000,000 barrel capacity, will be enlarged to care for the business taken over.

The executive committee of the Drug Manufacturers' Association met in Washington on Friday last. Routine association business was discussed, as well as preliminary arrangements for the annual meeting to be held in New York the week of April 16. All the members of the executive committee were present except H. H. White.

The Carolina Remedies Co., Charleston, S. C., capitalized at \$1,000,000, is considering moving to Greenville, S. C., in case the latter city agrees to give the company certain support. The directors are C. O. Allen, H. M. Smith, W. H. Balentine, Greenville, L. G. Miller, Spartanburg; W. A. McSwain, Columbia; J. F. Parham and J. W. Buchanan, Union.

The Society of Biological Chemists recently elected the following officers, President, Philip A. Shaffer, Washington University; vice-president, H. C. Sherman, Columbia University; secretary, Victor C. Mayers, New York Medical School; treasurer, W. R. Bloor, Rochester, N. Y.; council, A. P. Matthews, Cincinnati; H. C. Bradley, Madison, Wis., and Andrew Hunter, Toronto.

The North Carolina Pharmaceutical Association plans to submit a bill to the state legislature which, if passed, will bar merchants, other than licensed druggists, from selling drugs, chemicals and proprietary medicines, within the corporate limits of any city, town or village. When first drafted the bill prohibited the sale of medicines and allied products within five miles of a drug store.

The American Cellulose & Chemical Manufacturing Co., Ltd., Amcelle, Md., whose plant has been closed for some time, is planning to resume.

### MEDICINES TO BE LABELLED IN CANADA

Regulations governing the labelling of proprietary and patent medicines have been issued by the Governor General of Canada, according to advices received by the Tariff Division of the Department of Commerce. The order was issued under the Proprietary or Patent Medicine Act and requires that when any proprietary or patent medicine, registered under the Act, is put up or contained in bottles, boxes or other receptacles and offered or intended for sale or distribution in Canada, whether or not the actual container is a box, bottle or other receptacle and offered or intended for sale or distribution in Canada, whether or not the actual container is a box, bottle or other receptacle and whether or not such actual container is inclosed in an outside wrapper or carton, there shall be affixed by paste, mucilage or other adhesive to each actual container a label on which shall be clearly printed, forming an inseparable part thereof, the number under which the proprietary or patent medicine is registered with the words "Proprietary or Patent Medicine Act," together with the manufacturer's name and address and, where scheduled drugs are employed in the composition of the preparation registered, the proportion of each scheduled drug contained in the registered article shall be printed on the same label.

### NEW BOARD OF TRADE CHAIRMEN

The following New York Board of Trade and Transportation committee chairmen were appointed last week by Edward Plaut, of Lehn & Fink, Inc., chairman of the Drug and Chemical Section: Membership—Carroll D. Smith, Carroll Dunham Smith Pharmacal Co. Jobbing Druggists—Howell Foster, Schieffelin & Co. Legislation—Dr. Henry C. Lovis, Seabury & Johnson. Arbitration—Herbert B. Harding, Humphreys Homeopathic Medicine Co. Importers of Drugs and Chemicals—S. B. Penick, S. B. Penick & Co. Manufacturing Chemists—Raymond Foster, Bayer Co., Inc. Manufacturing Pharmacists—Franklin B. Yates, Yates Drug & Chemical Co. Importers of Essential Oils—Frederick E. Watermeyer, Fritzsche Bros. Tares—Irving McKesson, McKesson & Robbins, Inc.

### DISCOUNTS DIVIDE NEW YORK JOBBERS

McKesson & Robbins, Inc., New York manufacturers and wholesalers, have taken the lead in going back to the old discount rates on patent medicines of ten per cent on shipping case lots, five per cent on dozen lots, and net list on all orders for less than a dozen. This schedule replaces the one in force during 1922 of ten per cent on patent orders of any size and is the one still adhered to by the balance of the jobbing trade in New York. McKesson & Robbins say that they cannot do business on patents at a loss any longer and for this reason have discontinued the full ten per cent discount. They also announce that their jobbing business in the future shall be confined to the Metropolitan district exclusively.

### HEAVY EXPORT TRADE IN MEDICINALS

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 31.—November exports of quinine sulfate amounted to 22,643 ounces, valued at \$14,218; antitoxins and serums exported were valued at \$24,399; other medicinal and pharmaceutical preparations, \$1,119,136; roots, herbs and barks, 253,078 pounds valued at \$63,408.

Countries taking the largest quantities of medicinals were England, Canada, France, Spain, Mexico, Cuba, Argentina, Colombia, Peru, British India, China and Philippine Islands.

## The Intermediate and Dye Market

Current Spot Quotations of Intermediates, see Chemicals, page 288

### BETTER DEMAND FOR INTERMEDIATES

**Makers Taxed to Capacity on Some Products, While Others are in Moderate Call Only—Naphthalene Higher—Cresylic Acid Supplies Nearly Exhausted—Phenol Advanced by Holders of Pure Grades**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
Phenol, U.S.P., 5c lb.  
Declined  
No Declines

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Benzene, C.P. .... gal.	\$30	\$30	\$30	\$29	\$1.10	\$25
Naphthalene, flake .... lb.	.06	.06	.06	.07½	.16	.03
Phenol .... lb.	.32	.32	.35	.11	1.50	.45
Xylene, 2-deg. .... gal.	.45	.45	.45	.45	..	..
Toluene, pure .... lb.	.30	.30	.30	.30	..	..
Aniline Oil .... lb.	.16	.16	.16	.16½	1.40	.10½
Benzaldehyde .... lb.	.60	.60	.60	.45	..	..
Betanaphthol, dist. .... lb.	.24	.24	.24	.30	1.20	.08
Paranitroaniline .... lb.	.74	.74	.73	.77	1.85	.08
Average .....	0.350	0.350	0.352	0.325	1.25	1.67

While business in intermediates is about fifty per cent better than it was a year ago, the market has not been very active during the first month of the new year. The demand for colors is somewhat slow at present and this naturally affects the consumption of intermediates while spot business is less, owing to previously placed contracts for delivery over the first few months of the year. Contract business has shown much improvement but manufacturers are unwilling to contract more than three months ahead owing to the uncertainty of raw material supplies and costs of production. The quality and prices of American products are becoming attractive to foreign consumers and an export inquiry has developed recently. The occupation of the Ruhr region by the French and the shortage of coal in Germany with the probable curtailment of German exports has no doubt hastened this inquiry. A number of intermediates are in strong demand and makers are taxed to capacity while other products are only in moderate call. Prices are generally firm and quotably unchanged. Coal-tar crudes continue scarce. Benzol is offered more freely, but supplies are far from being in surplus. Toluol, solvent naphtha and xylol are practically unobtainable on spot. Cresylic acid supplies are nearly gone, and the price is nominal. Phenol has been advanced by holders of the pure grades. Crude naphthalene is in strong demand and higher in price.

#### Coal Tar Crudes

**Benzene**—Improvement in production with a decrease in demand during the winter months has improved the situation and supplies are available for prompt delivery. Large producers continue to quote 90 per cent at 27c@32c per gallon and C.P. at 30c@35c. In the market 90 per cent is offered at 32c@33c per gallon. C.P. at 35½c@36½c gallon.

**Cresylic Acid**—The market is said to be bare of supplies and none is available except imported, which is very high in price. The last selling price heard was \$1.35 per gallon. Domestic makers are sold far ahead and have none to offer for prompt shipment. Imported goods will cost about \$1.65 per gallon, duty paid, New York.

**Naphthalene**—Seasonal buying has made the market

active and supplies are diminishing. Flake is being sold at 6c@7c lb as to seller and quantity. Balls are quoted at 7c@8c lb and crushed at 5c@5½c lb. Crude is scarce and higher. Prices range from \$2.65@3.00 per 100lb according to quality.

**Phenol**—Material in the open market is quoted at a range from 32c@34c lb as to seller. Holders of U.S.P. material have advanced their prices for 336lb drums to 40c@45c lb. The market is becoming stronger and some factors look for still higher prices. Domestic production is under contract for months ahead.

**Toluene**—Producers have very little to offer at present. Production may gain with the easing of the benzol situation. Makers' quotations are mainly for future delivery at 30c@35c per gallon according to quantity.

**Xylene**—Prominent dealers are unable to locate supplies and consumers apparently will have to struggle along without this material. The largest producer is not operating and is understood to be in the market for supplies. Quotations are nominal.

#### Intermediates

**Acid, Anthranilic**—Occasional sales are being made but the demand is very small at present. Technical is quoted at \$1.10@1.15 as to quantity. Refined named at \$1.30@1.35 lb.

**Acid, Chromotropic**—Moderate movement with makers quoting \$1.25 lb.

**Acid, Benzoic**—Technical is in fair demand with makers quoting 60c@65c lb as to quantity. U.S.P. held at 72c@77c lb.

**Acid, Gamma**—Makers report a steady demand for this product and prices are firm at \$1.75@1.85 lb according to quantity.

**Acid, H**—Consumption has been on the increase and producers are busy meeting previously placed orders. Large quantities are quoted at 75c lb while barrel lots range from 85c@90c lb.

**Acid, Laurent's**—Very little activity with barrels named at 80c@85c lb.

**Acid, Monosulfonic**—First hands are quoting \$2.30 lb with demand improving.

**Acid, Naphthionic**—In routine demand with technical named at 60c@62c lb. Refined held at 65c lb for single barrels.

**Acid, Salicylic**—Technical is moving on the basis of 42c lb in first hands. U.S.P. is held at 45c lb. Second hands are quoting 36c@38c lb. Buying continues active.

**Acid, Sulfanilic**—Quoted at a range from 17c@20c lb according to the seller and quantity. Market has been quiet.

**Alpha-naphthylamine**—Movement into consumers' hands is along steady lines. Prices are unchanged with makers quoting ton lots at 28c lb and smaller quantities at 29c lb.

**Aniline Oil**—Demand for this material has been very strong and stocks are not in large supply. Considerable quantities have been going into the rubber industry. Tanks are named at 16c lb and drums at 16½c@17c lb.

**Aniline Salt**—Steady at 24c@25c lb.

**Benzidine**—Demand has been slower but prices are firm at recent levels. Quoted at 85c@87c lb as to quantity.

**Beta-naphthol**—Consumers have been taking larger quantities and the market is fairly active. Makers' prices are unchanged at 24c@26c lb depending upon the quantity.

**Dimethylaniline**—Routine demand with makers' prices steady at 40c@41c for drums as to quantity.

**Ortho-toluidine**—Quotations range from 14c@16c lb as to seller and quantity. Supplies are plentiful, however, and the inside price can probably be shaded slightly.

**Para-aminophenol**—Seasonal inactivity in the fur dyeing trade has made the market quiet at present. Quotations are firm, however, at \$1.15@1.25 as to seller. The hydrochloride is held at \$1.20@1.25.

**Para-dichlorobenzene**—Supplies are scarce owing to the demand for liquid chlorine and one large producer is not offering. Quoted at range from 18c@30c lb according to the quantity.

**Para-nitraniline**—Moving in good quantities and prices are firm at 74c@76c lb.

### CANADA'S DYE PURCHASES IN U. S.

(Special to DRUG & CHEMICAL MARKETS)

Toronto, Canada, Jan. 31.—The monthly report of the Trade of Canada for November gives the value of imports of dyeing and tanning materials as follows: From Great Britain, \$23,296; United States, \$264,503; other countries, \$95,466; total \$383,265; compared with imports from Great Britain in November, 1921 valued at \$38,341; United States, \$309,405; other countries, \$105,261; total, \$453,007.

Imports of aniline and coal-tar dyes included in the above, were as follows: From Great Britain, 35,256 lbs., value \$15,613; United States 177,677 lbs., value \$106,654; Germany, 24,940 lbs., value \$25,992; Netherlands, 37,986 lbs., value \$20,987; Switzerland, 14,911 lbs., value \$15,180; other countries, 16,026 lbs., value \$10,823; total, 306,796 lbs., value \$201,249; compared with imports in November 1921; from Great Britain, 48,450 lbs., value \$37,171; United States, 136,786 lbs., value \$124,730; Germany, 8,077 lbs., value \$53,998; Netherlands, 8,935 lbs., value \$11,161; Switzerland, 22,395 lbs., value \$24,542; total, 224,643 lbs., value \$251,602.

The Ligol Chemical Co., Houston, Texas, has bought the lignite mines owned by the Anderson County Coal Co., of Palestine, Texas, it is announced, and will install dehydrating machinery and manufacture by-products from coal. Carbon will be one of the main items.

The Federal Color Laboratories of Norwood, O., will occupy the new dry color plant which is to be built in Norwood by the Heekin Can Co., of Cincinnati. The plant which is to be two stories containing 20,000 square feet, will cost about \$65,000.

The Manufacturers Chemical Co., St. Paul Park, Minn., produces tar, creosote, carbon and gas from straw, which was formerly a total waste. Farmers usually burned their surplus stacks in order to get rid of them.

The Westmoreland Chemical & Color Co., Superior, Wis., is enlarging its plant for the production of copperas and oxides. The capacity at present is 400,000 pounds of copperas per week.

Binney & Smith, Easton, Pa., manufacturers of colors, are building a four-story concrete building and a 250 h.p. power plant at their local works.

### APPRAISER TO MAKE LIST OF DYES

The dye parleys that have been in progress in New York for many weeks between Government appraising officials and representatives of American dye manufacturers and manufacturers who are also importers, and importers, and consumers of dyestuffs, ended in discord, last Friday, when the representatives of the American dye manufacturers withdrew from the Advisory Committee following their announcement that it was impossible for them to submit a list of non-competitive dyes without some definite standard upon which to base their judgment. Deputy Appraiser John Donnelly announced that the Appraisers would proceed with the work of compiling the tentative list and regulations for presentation to the Tariff Commission this week.

The Advisory Committee, which consisted of two representatives of American manufacturers and manufacturers who are also importers, and importers and consumers of dyestuffs, has been working on a tentative list of colors based on the Schultz index. It was understood that everything was progressing well and that a tentative copy of regulations for the importation of dyestuffs and a list of competitive and non-competitive dyestuffs would probably be ready to forward to Washington late last week, following the conference of Friday. The failure of the American manufacturers to submit their list of non-competitive dyes will probably result in the abandonment of further conferences between the committee and the appraisers.

The dyestuffs manufacturers state that it is the function of the appraisers to fix some definite standard by which it is possible to judge whether a color is competitive, that this standard may be arbitrary, but that without it, there is little to be gained in attempting to draw up such a list. There is much for the manufacturers to lose by making out such a list whereas on the part of the importers there is little or nothing to lose. The position of the manufacturers, according to Dr. Charles H. Herty, president of the Synthetic Organic Chemical Manufacturers' Association, was outlined to the Appraiser early last week, and they were of the opinion that it was the function of the customs officials to state what makes a color competitive, whether it be a matter of fastness, or strength, or usage or whatnot. With such a ruling it would be comparatively simple to compile the desired list.

### CHINA BUYING DYE EXTRACTS AND STAINS

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 31.—Logwood extracts amounting to 211,281 pounds and valued at \$36,896 were exported during November. Other dye extracts exported amounted to 313,733 pounds valued at \$45,125.

Other colors and stains exported amounted to 1,084,890 pounds valued at \$395,579. The largest shipments were to Canada, about 166,000 pounds valued at \$90,260; China, 719,000 pounds, valued at \$164,952; Japan, 97,867 pounds valued at \$80,438; British India, 32,537 pounds, valued at \$10,660. Italy took 83,686 pounds of logwood extract valued at \$17,498; France 33,520 pounds valued at \$5,109; and Canada, 33,561 pounds, valued at \$5,363.

The United Dyewood Corp. has declared a quarterly dividend of \$1.75 payable April 2 to stockholders of record March 15. Future dividends of \$1.75 quarterly were provided for, to be paid July 2, Oct. 1 and Jan. 2.

The Grasselli Chemical Co. has received a judgment of \$480.80 against the Pioneer Dyestuff & Chemical Co.



## The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 303

### CHINAWOOD AND SOYA BEAN OILS UP

Denatured Olive Oil Plentiful and Lower—Palm Oil, Perilla, Lagos, and Peanut Scarce and Prices Tending Upward—Cottonseed Oil Declines Sharply—Stearic Acid and Red Oil Advanced

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Chinawood Oil, 3/4c lb.	Red Oil, 3/4c lb.
Menhaden Oil, ref., 3c gal.	Stearic Acid, 3/4c lb.
Lard Oil, Ed. Prime, 3/4c lb.	Stearine, Oleo, 3/4c lb.
Palm Oil, 3/4c lb.	Whale Oil, 3c gal.
Declined	
Olive Oil, denat., 5c gal.	Oleo Oil, No. 2, 3/4c lb.
Cottonseed Oil, 3/4c lb.	Turpentine, 3c gal.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Cod Oil, N. F.....gal.	\$.62	\$.62	\$.61	\$.44	\$.27	\$.36 1/2
Degras, American, bbl..lb.	.04 3/4	.04 3/4	.04 1/2	.03 3/4	.25	.08 1/2
Lard, No. 1.....gal.	.97 1/2	.97 1/2	.88	.65	2.90	.92
Menhaden, crd. bbls..gal.	.33	.33	.48	.38	1.30	.33
Neatsfoot, 20 deg. c.t.gal.	1.39	1.39	1.35	1.32	3.45	.96
Red Oil, distilled.....lb.	.11 1/2	.11 1/4	.10	.07 1/2	.17	.07
Stearic Acid, T.P.....lb.	.14 1/2	.14	.12 1/2	.10 1/2	.33	.12
Coconut, Ceylon						
Dom., bbls.....lb.	.09 1/2	.09 1/2	.08 1/2	.08 1/2	.20	.14
Cottonseed, crude, tanks lb.	.10	.10	.08 1/2	.07 1/4	.25	.08
Linseed, carlots.....gal.	.90	.90	.90	.77	1.88	.57
Olive, denatured.....gal.	1.05	1.10	1.15	1.15	4.50	1.05
Peanut, refined.....lb.	.16 1/2	.16 1/4	.14 1/2	.11	.30	.08
Soya Bean, bbls.....lb.	.12 3/4	.12 3/4	.12 3/4	.09	.19 1/2	.07
Average.....	.0481	.0483	.0473	.0412	1.30	.0362

Firmness continues to characterize the market in oils, and further advances took place in a number of products. Stocks, on the whole, are in limited supply and in several instances unobtainable. Chinawood oil offerings have been growing smaller and there is little likelihood of any large quantities coming into the market for several months. Soya bean oil is also somewhat scarce on spot and shipments are coming in slowly, due to the fact that facilities are inadequate. Prices of both these oils are higher. Denatured olive oil is plentiful and lower in price. Palm oil is higher, Niger being very scarce on spot. Perilla oil is higher for shipment. Peanut oil continues scarce and firm in price. Linseed oil has been quiet but prices are firmly held. Foreign quotations are higher. Cottonseed oil weakened last week and fell off fifteen to twenty points. Animal oils remained firm. Lard oil, No. 1, is higher. Stearine oleo has advanced. Tallow was easier. Stearic acid and red oil are higher. Greases are very firm. Offerings of fish oils are small and prices are firm and higher for refined oils. Turpentine was dull and prices declined. Rosin was slow with no change in prices.

#### Vegetable Oils

**Castor Oil**—The market is strong with No. 1 quoted at 13c@13 1/2c lb. as to quantity. In cases 14c@14 1/2c lb. No. 3 named at 12 1/2c@13c lb.

**Chinawood Oil**—Supplies are scarce on spot and handlers are asking higher prices. Sales are reported to have been made at 18c lb. Shipments are also higher with Feb.-Mar. at 15 1/2c lb. and April-May at 15 1/4c lb.

**Coconut Oil**—Market has been quiet but prices remain firm at recent quotation. Ceylon in barrels held at 9 1/4c@9 3/4c lb. in barrels. Tanks at 8 3/4c@9c lb. Coch-in in barrels at 10 1/4c@10 1/2c lb. Tanks nominal. Manila in tanks at coast 7 1/4c@8c lb. Edible in barrels New York at 10 3/4c@11c lb.

**Corn Oil**—Crude in good demand with holders firm in their views at 10c@10 1/4c lb in tanks at mills. Barrels at 10 3/4c@11c lb New York. Refined held at 13 1/2c lb on spot.

**Cottonseed Oil**—Unsettled conditions in cotton weakened the market and less active trading. Prices declined fifteen to twenty-five points from last week's quotations. Prime summer yellow on spot at 10.85c lb. Crude at mills 9 3/4c@10c lb. Jan. 10.85. Feb., 10.75@11.10. March, 11.10@11.18. April, 11.20@11.20. May, 11.33@11.35. June, 11.35@11.45. July, 11.48@11.53. Aug. 11.49@11.55. Sept., 11.50@11.60 were the opening quotations this week.

**Linseed Oil**—Stocks are not plentiful and crushers appear to be well sold in advance. The market has been quiet with little interest by consumers because of high prices. Spot in carlots at 90c and for Feb.-April, 90c. Flaxseed has been moving more freely from Argentina and prices have remained steady. London linseed oil is higher at 39s 6d. Antwerp, 297f. Duluth seed is lower with cash at \$2.82. Jan., \$2.81. Feb., \$2.77. May, \$2.57. July, \$2.52. Winnipeg, May, \$2.18. July, \$2.15. Buenos Aires, \$1.76 1/2.

**Olive Oil**—Denatured easy at \$1.05@1.10 per gallon. Edible steady at \$1.80@2.10. Foots in active demand and prices firm at 9 1/4c@9 1/2c lb. for spot. Shipment 8 1/2c@8 3/4c lb.

**Palm Oil**—Demand quiet during the week with Lagos at 8c@8 1/2c lb on spot. Niger scarce on spot and shipment at 7 1/4c lb. Calabar, 7 1/4c@7 1/2c lb.

**Peanut Oil**—Refined is nominal around 16 1/2c@17 1/2c lb. Crude in buyers' tanks at mills held at 13c@13 1/2c lb. New York, 14 1/4c@14 3/4c lb.

**Soya Bean Oil**—Lack of supplies has restricted business. Crude in barrels New York held at 11 1/2c@12c lb. In tanks at Coast stronger at 9 1/4c@9 1/2c lb. Refined in barrels New York named at 12 3/4c lb.

#### Animal Oils

**Greases**—The market remained firm in spite of slight easiness in tallow. White in barrels New York at 10 1/4c@10 3/4c lb. Yellow, 8 1/4c@8 3/4c lb. Brown, 7 1/2c@8c lb. House, 8 1/2c lb. Bone, 7 1/4c lb.

**Lard Oil**—Edible is higher at 15 1/4c lb. Lower grade remained unchanged at last quotations. Off prime, 14c lb. Extra, 13 1/2c lb. No. 1, 13c. No. 2, 12 1/2c lb.

**Neatsfoot Oil**—Market continues firm with offerings of 20 degree cold test at 18 1/2c@20c lb. on spot. 30 degree test named at 15 1/4c@15 1/2c lb. Prime, 13 1/4c lb.

**Oleo Oil**—Handlers continue to name No. 1 at 13 1/4c@14c lb. No. 2, 11 1/2c@11 3/4c lb. No. 3, 9 1/2c@9 3/4c lb.

**Red Oil**—Makers have advanced their prices again on higher costs of production. Distilled and saponified named at 11 1/2c@12c lb. for carlots.

**Stearic Acid**—Higher quotations are noted on the basis of 13c lb. for double pressed in carlots. Triple pressed 14c lb. Smaller quantities at a 1/2c lb. advance on above figures.

**Tallow**—Easier in tone with city extra loose at 8 1/4c lb. Edible held at 10 1/2c lb.

#### Fish Oils

**Cod Oil**—Diminishing stocks tend to keep the market strong. Holders are asking 62c@63c per gallon in tanks and 64c@65c in barrels New York.



**Menhaden Oil**—Stocks of oil in the primary market are about exhausted and only a few barrels can be located. Last sales were reported at 53c gallon in barrels at Baltimore. Refined oils are higher. Light strained 67c @69c per gallon. Bleached, 72c. Brown, 80c.

**Whale Oil**—Offerings are light with natural winter named at 73c per gallon in barrels. Bleached winter held at 74c@77c per gallon.

**Naval Stores**

**Turpentine**—The market was quiet throughout the week and prices declined to \$1.50 per gallon. Savannah lower at \$1.44. Steam distilled, \$1.42. Destructive, \$1.22.

**Rosin**—No change took place in the market with buying along conservative lines. B, \$6.15. D to I, \$6.25. K, \$6.30. M, \$6.75. N, \$7.10. WG, \$7.50. WW, \$8.00.

**ITALY'S RESOURCES FOR TURPENTINE**

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 31.—Professor Fachini opened his course on the technical chemistry of oils and fats at the Polytechnic Institute of Milan, Italy, by declaring that Italy could obtain enough rosin and turpentine within its own borders to satisfy tenfold the present requirements of the country, says a report to the Department of Commerce. Instead of obtaining these materials from their own trees, Italians import them from the United States, France and Spain to the annual amount of 40,000,000 lire.

Italy's forests extend over an area of something like 4,500,000 hectares equivalent to about 11,000,000 acres, of which 1,500,000 hectares or about 3,700,000 acres, are covered with conifers which would yield rosin and turpentine. This acreage is said to be more than double the one existing in the Landes region of Gascony which the French exploit on a large scale.

If Italy's resources in the way of rosin and turpentine should be developed enough occupation would be provided, declared Professor Fachini, to do away with present unemployment almost entirely.

**Oil Trade Notes**

Will & Baumer Co. has declared a quarterly dividend of 25 cents, payable Feb. 15 to stockholders of record Feb. 1.

Exports of linseed oil during November were 272,000 pounds valued at \$33,800. Largest shipments were to Panama, Cuba, Mexico, Venezuela, Canada, Colombia, and Philippine Islands.

Arthur F. Brown, formerly with Spencer Kellogg & Sons and for the past two years salesman with the Imperial Color Works, Inc., Glens Falls, N. Y., has been appointed general sales manager of the Imperial company.

The Lasco-Shellac Co., Louis A. Stabler, vice-president and general manager, has taken over the property of Lasco, Ltd., of Baltimore, and by adding to the machinery and other equipment has enlarged the daily output to 3,000 gallons of shellac.

The American Turpentine Co., doing business as the North American Fiber Products Co., has been charged with unfair practice by the Federal Trade Commission. The first named company sells paints and varnishes under the name of the North American Fiber Products Co. and advertises the latter as a manufacturer of same, which procedure is claimed to be unfair in that it misleads buyers of these products.

**COCONUT OIL INDUSTRY OF JAVA  
HARD HIT IN 1922, BUT IS GAINING**

United States the Best Consumer Since World War—  
Copra Trade Also Shows Decline—America Took Only 1,000,000 Kilos in 1922 Compared With Nearly 5,000,000 Kilos in 1921

(Special to DRUG & CHEMICAL MARKETS)

Batavia, Java, Jan. 8.—Exports of coconut oil from Java during ten months of 1922 show how hard this industry was hit by the general slump in business and the lack of demand during the past year. The largest oil mill in the island and many of the smaller ones have been obliged to close down since the end of 1921 and only a few plants have been operating, and then under very trying conditions. Later indications, however, are that the oil business is picking up, although the demand which has been noted of late is from countries other than the United States, which has been the principal buyer since the war. Shipments of coconut oil for the last six years were as follows:

Liters		Liters	
1917	30,665,000	1920	63,900,000
1918	33,237,000	1921	30,312,000
1919	76,891,000	1922 (10 mos.)	11,000

The exports of peanut oil in recent years were as follows:

Liters		Liters	
1919	6,716,000	1921	1,212,000
1920	960,000	1922 (10 mos.)	146,000

The principal destinations of coconut oil were the United States, Great Britain and Holland, whereas peanut oil has been shipped nearly exclusively to Holland and Eastern markets.

Java's exports of copra also show a downward trend from the level of last year. The 1921 record was 94,014,000 kilos, whereas during ten months of 1922 shipments totaled only 43,236,000 kilos, being the smallest quantity shipped since the year 1910. The larger portion of this trade was with Holland, which took 15,428,000 kilos out of 21,341,000 for transshipment. The United States was a customer for 1,089,000 kilos only, against 4,856,000 kilos during the ten months of 1921, and 3,576,000 kilos for the corresponding period of 1920. The following table shows the total copra exports for the last six years:

Kilos		Kilos	
1917	116,770,000	1920	49,735,000
1918	60,578,000	1921	94,014,000
1919	103,794,000	1922 (10 mos.)	43,236,000

**GEORGE E. BROWN DEAD**

George Elliott Brown, died at his home in Norwalk, Conn., on Jan. 25 after a very brief illness. About ten days ago he contracted a heavy cold which developed into the grippe and terminated in pneumonia. Mr. Brown had been identified with the fish oil and kindred trades for more than twenty-five years. He entered the employ of the Swan & Finch Co. as a salesman, later becoming the head of the sales department and twelve years ago was elected secretary of the company, which office he recently relinquished to become its vice president.

The Atlantic Turpentine Co., St. George, S. C., recently organized, has acquired property at Pregnall, S. C., for the construction of a new plant. H. H. Gross is president; M. S. Connor, secretary, and T. A. Patrick, general manager.

## The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 305

### INSECT POWDER ADVANCED BY MILLERS

**High Cost of Flower Shipments Responsible—Gum Arabic Scarce and Higher—U.S.P. Henbane in Small Supply—Uva Ursi Up—Henna and American Saffron Easier—German Fennel Lower**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Arabic Gum, 3c lb.	Insect Powder, 5c lb.
Balm Gilead Buds, 4c lb.	Malva Flowers, Blue, 5c lb.
Oregon Balsam, 35c gal.	Saffron, Span., \$1 lb.
Cardamom Seed, Decrt., 5c lb.	Sarsaparilla, Hond., 5c lb.
Colocynth Pulp, 5c lb.	Shellac, T.N., 2c lb.
Henbane Leaves, 10c lb.	Uva Ursi Lvs., 1c lb.
Declined	
Asafetida, 4c lb.	Henna Leaves, 1c lb.
Benzoin Sumatra, 3c lb.	Honey, Calif., 1/2c lb.
Chamomile Flrs. Roman, 5c lb.	Marjoram Lvs., Germ., 1c lb.
Coriander Seed, Mor., 1c lb.	Orris, Fingers, 5c lb.
Culvers Root, 10c lb.	Rhubarb Rt., Powd., 2c lb.
Dragon's Blood, Reeds, \$1 lb.	Saffron, Amer., 10c lb.
Fennel Seed, German, 3c lb.	Thyme, French, 1c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P.	\$4.40	\$4.40	\$4.40	\$2.22	\$9.90	\$1.12
Buchu Leaves, Short	1.10	1.10	1.15	1.08	4.00	.85
Cantharides, Russian	2.00	2.00	2.40	2.50	9.00	2.10
Cocculus Indicus	.031/2	.031/2	.031/2	.061/2	.85	.08
Ergot, Spanish	.60	.60	.60	1.03	4.50	.54
Insect Powder, pure	.75	.70	.70	.42	1.00	.28
Ipecac, Cartagena, pwd.	1.90	1.90	1.75	1.60	4.50	1.35
Nux Vomica	.07	.07	.07	.40	1.41/2	.07
Opium, gum	6.75	6.75	6.75	5.50	30.00	5.00
Rhubarb Root, H. D.	.42	.42	.43	.50	1.75	.15
Tragacanth, No. 1, ribbon.	1.75	1.75	1.80	2.50	6.00	1.50
Wild Cherry Bk., thin nat.	.09	.09	.09	.09	.21	.07
Average	1.37	1.37	1.37	1.36	5.28	1.00

Business in crude drugs during the past week has been spotty. In a few items, activity has been notable, but has been offset to some extent by apparent lack of interest in the general line. If prices were generally soft or threatening a downward movement, the reason for this situation might be understood, but basing conclusions on a broad survey of botanical stocks in primary markets and on spot, the exact reverse appears to be the case, and sellers are at loss to see through the lack of interest by consumers. Prices generally are well held with spot revisions of the week being about evenly divided between advances and declines. Millers have advanced insect powder on flower cost. Gum arabic, U.S.P. henbane leaves, uva ursi leaves, Spanish saffron, balm gilead buds, and cardamoms are higher. Henna, orris fingers, powdered rhubarb, American saffron, German fennel, powdered asafetida, Roman chamomiles and benzoin are easier on spot.

**Aniseed**—Spanish quiet, but very strongly held at 25c lb. spot. Star slightly easier at 14 1/2c@15c lb. spot.

**Arabic Gum**—Spot supplies are very scarce and prices are higher. Amber sorts have moved to 22c lb. with several factors reported short of spot goods. Shipment is hard to get at 60s. Powdered and ground are quoted at 24c@25c lb. U.S.P., which is higher.

**Arnica Flowers**—Continues easy and quiet, but without change in price at 12c@12 1/2c lb. spot.

**Arrowroot**—St. Vincent's in small supply and very firm at 10 1/2c lb. inside spot. American 5 1/2c@6c.

**Asafetida**—Powdered has been cut to 55c lb. by some sellers, ranging to 58c as to quantity. Whole cases at 32c to 36c as to seller.

**Balm Gilead Buds**—Firm for good quality at 47c@48c lb. spot.

**Balsams**—Oregon fir practically unobtainable on spot. Small odd lots changed hands at \$2.25 and \$2.50 per gal. Peru quiet at \$2.10.

**Benzoin**—Somewhat easier for spot Sumatra benzoin at 35c lb. cases.

**Blackhaw Bark**—Bark of root very strong. As to quality from 38c all the way up to 46c is heard. Bark tree firmer 22c.

**Buchu Leaves**—Spot rather quiet with buyers looking to new crop goods and picking up only odd lots of present holdings in New York. Bales at \$1.10; less bales \$1.15 lb. Shipment reported at 72c c.i.f. for Feb.-Mar. without confirmation.

**Cantharides**—Russian easier on spot at \$1.80 lb. for whole and \$2.25 for powder. Chinese \$1.10@1.15 whole; powder \$1.25@1.30.

**Caraway Seed**—Not so active at 29c lb. spot Dutch is bags.

**Cardamom Seed**—Decorticated higher at 75c lb. and scarce at this figure. Bleached firmer at \$1.00 up to \$1.25.

**Cascara Sagrada**—Supplies smaller. Demand steady. Prices firmer. For 1922 peel as to quantity and seller 13 1/2c@14c. Three year old at 14 1/2c@15c spot.

**Chamomile Flowers**—Roman again slightly easier on spot at \$1.20@1.25 lb. Hungarian quiet and in limited demand at 18c@20c lb. spot cases as to seller and quantity.

**Cloves**—Tending to higher levels. Position speculative and really a mystery. London looks to be short, but whether this is a fact or another clove fairy-story, is hard to say. Spot bales Zanzibar 25c lb.

**Colocynth Pulp**—Firm here at 45c lb. for good quality. Apples as to quality from 15c for seedy up to 25c for very choice.

**Cubeb Berries**—Spot stocks are heavy and not moving as rapidly as might be expected. Prices are not being cut, however, fairly large sales being made last week at 82 1/2c lb. XX whole.

**Cumin Seed**—Some recently released seed offered spot at 30c lb.

**Culvers Root**—Small lots only offered at prices ranging from 55c lb. up to 65c lb. spot. Scarce in all quarters.

**Dandelion Root**—Strong and high for shipment. Spot as to seller at 12c@14c lb.

**Dragon's Blood Reeds**—Spot reeds now offered at \$1.50 lb., which was the figure asked for arrival a week or so ago.

**Elm Bark**—Qualities have narrowed down to 26c, 27c and 28c sellers for selected bundles spot. Demand routine. This compares with 25c up to 30c goods some time ago.

**Ergot**—Apparently firmer, although spot sales of Central European goods were made last week at 58c and could be duplicated at the close. Generally held spot at 60c lb. bags either so-called Russian or Spanish. Some holders of Spanish inside at 62c and willing to wait.

**Fennel Seed**—New lots of spot German offered at 25c lb as against 28c last week. French unchanged at 17c spot.

**Henbane Leaves**—For U.S.P. goods, both spot and

subject to passing, prices range from 48c up to 58c lb. Real U.S.P. stuff is scarce here. Plenty of non-U.S.P. at 32c@42c spot as to quality.

**Henna Leaves**—Holders of spot bales have shaded prices another cent this week to 18c lb., which more or less confirms rumors of competition from a distress sale of a round lot in New York. Not all holders meeting this figure, up to 20c still heard.

**Insect Powder**—Leading millers have advanced prices for pure powder to 75c lb. inside for barrels. This move was actuated by the cost of flowers. Shipment for Japanese or closed Dalmatian is very firm at 58c c.i.f. On late milling operations, loss in weight has been heavy. Demand for powder continues active.

**Ipecac Root**—Offers of small lots of Cartagena at \$1.75@1.80 lb. for whole and \$1.90 for powdered. Scarce. No Rio offered on spot.

**Lycopodium**—Large stocks still held on spot. Prices range from 40c lb for five hundred or a thousand pounds up to 48c or 50c for a 22 lb. packet. Some uncertainty felt regarding the position of stocks abroad.

**Malva Flowers**—Blue firmer spot at 35c lb. Black quiet at 65c.

**Marjoram Leaves**—Spot German cheaper at 19c@20c lb. French also easier at 14c@15c lb.

**Orris Root**—Spot fingers cheaper at 65c@70c lb..

**Rhubarb**—Whole cases spot dull, but prices steady at 42c lb. Possibly 41c on a round lot. Powdered slightly easier at 48c@50c lb. bbls. and less.

**Saffron**—Spanish very scarce and again higher at \$36.00 lb. Practically nothing on spot. American lower on new offers at \$1.30 lb. spot.

**Sarsaparilla**—Honduras firmer at 54c lb. Mexican still easy at 22c@23c lb. spot as to seller and quality.

**Thyme**—French offered easier on spot at 10c lb. Spanish at 8c.

**Uva Ursi Leaves**—Higher as expected after firmness of last week. Now inside at 6½c lb. as compared with 5½c a week ago.

Officers of the Cosmopolitan Drug Co., New York, were arrested and a quantity of whiskey, alcohol and bottling and capping machinery, valued at \$300,000 seized, last week, in a raid by Federal Prohibition officers on a six-story brick building occupied by the drug company at 133 Chrystie street. The prisoners, who were taken to the Clinton Street Police Station, are Alfred Timen, 440 West End avenue, president of the company and David Kahn, 56 Downing street, Brooklyn, treasurer. They are charged with violation of the Federal Prohibition laws.

The New Jersey Wholesale Drug Co., of Newark, lost its fight against the federal prohibition authorities, who charged that the concern was selling alcoholic beverages for other than medicinal purposes, when Internal Revenue Commissioner Blair signed an order revoking the firm's sales permit. The struggle started last spring when prohibition agents made a raid on the drug company's warehouse and discovered several cases of illegal liquor, said to have been furnished by Zucker, Steiner & Stein, liquor dealers.

The sales department of B. O. G. E. Wilson, Inc., Attoona, Pa., drug specialty house, held a convention last week at which plans for the ensuing year were discussed. The salesmen met with the executive council, recently organized to effect a smoother running organization.

The Chicago Drug and Chemical Association held its regular monthly meeting and luncheon Friday, Jan. 26, at the Elks Club, Chicago.

## PHILADELPHIA DRUG REPORT ISSUED

The sixty-second annual report of the Philadelphia Drug Exchange has been issued under date of Jan. 25. In addition to the annual message from President Charles E. Hires, and a report on general business and financial conditions of the year by Secretary Joseph W. England, various group reports have been included. Legislation by C. Mahlon Kline; Crude Drugs and Drug Milling by Herbert McIlvaine; Medicinal Chemicals by F. L. Bodman; Heavy and Technical Chemicals by Alex. C. Fergusson, Jr.; Volatile Oils by J. F. Pound; Pharmaceuticals and Biologics by Milton Campbell; Proprietary Goods by Miers Busch; Paints, Oils and Varnishes by C. Stanley French; Advertising, Selling and Transportation by Harrison S. Hires; Accounting, Credit and Collections by Walter V. Smith; Liability and Compensation by Adam Pfromm; Fire Insurance by A. L. Hilles, Jr.; and Scientific Research by Dr. A. W. Miller, comprise the individual group reports.

At the annual election held on Jan. 23, Charles E. Hires was re-elected president; Milton Campbell, vice president, A. L. Hilles, Jr., treasurer, and Joseph W. England, secretary.

James Otis, of the importing and exporting firm of Otis, McAllister & Co., San Francisco, was one of the representatives of the San Francisco Chamber of Commerce on its trade extension excursion to the east coast of South America, sailing on Jan. 25. About one hundred business men made the trip on the liner President Hayes. After passing through the Panama Canal the excursionists planned to visit Ponce, Rio de Janeiro, Buenos Aires, Montevideo and Santos.

Dr. George L. Schadt, head of the New England Laboratories, Inc., Springfield, Mass., has purchased the Emerson laboratories from the estate of the late Dr. Herbert C. Emerson, with whom he was associated several years. The Emerson company will be incorporated with the New England Laboratories, Inc., which will occupy new quarters now under construction.

The Northwestern Drug Exposition will be held at St. Paul, Minn., the week of Feb. 19. In conjunction with the exposition meetings will be held by the following organizations: Minnesota State Pharmaceutical Association, northwestern branch of the American Pharmaceutical Association and the American Chemical Society, and the Northwest States Rexall Clubs.

The Netherlands Chamber of Commerce in New York, Inc., elected the following officers at a meeting held in New York last week: William C. Redfield, president; William van Doorn, first vice-president; Pablo Homs, second vice-president; Elias A. de Lima, treasurer; L. Wittert van Hoogland, secretary; Guy van Amringe, counsel.

Mrs. Gessler, wife of Dr. A. E. Gessler, vice-president of the Ultro Chemical Corp., 41 Union square, New York, took lysol at the Hotel Waldorf, last week, and was removed to Bellevue Hospital. Dr. Gessler said she had been despondent since an operation which she underwent recently.

Dr. Charles H. Herty and Prof. E. M. Chamot of Cornell University spoke at the January meeting of the New Jersey Chemical Society, held last week at Stettens Restaurant, Newark, N. J.

The Van Vleet-Mansfield Drug Co., Memphis, Tenn., held its annual sales convention the third week in January.



## The Essential Oil Market

Current Spot Quotations of Essential Oils, page 309; Aromatic Chemicals, page 310

### FURTHER RISE IN CITRONELLA PRICES

Both Spot and Shipment Position Higher—Buying Causes Firming Tendency in Lemon—Spot Clove Oil Easier—Further Cut in Bergamot—Peppermint Easier in the Country—Good Volume of Business

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Oil Cajuput, 10c lb.	Oil Lemon, Sicily, 5c lb.
Oil Citronella, Ceylon, 4c lb.	Oil Lemongrass, 5c lb.
	Phenylethylalcohol, 50c lb.
Declined	
Oil Amber, 10c lb.	Oil Cloves, Spot resale, 25c lb.
Oil Bergamot, 25c lb.	Oil Mustard, Artif., 25c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot	\$2.50	\$2.75	\$3.00	\$5.00	\$7.00	\$5.00
Oil Citronella, Ceylon	.64	.60	.58	.42	.92	.60
Oil Cloves	1.90	2.15	2.25	2.25	3.70	1.40
Oil Lemon	.70	.65	.65	.65	1.70	2.00
Oil Peppermint, Nat.	2.90	2.90	3.00	1.70	9.00	2.25
Oil Sandalwood, E. I.	7.10	7.10	7.00	7.25	13.00	5.25
Oil Sassafras, Artif.	.42	.42	.42	.50	1.00	.26
Benzaldehyde, U.S.P.	1.40	1.40	1.40	1.25	5.15	1.50
Coumarin	4.00	4.00	4.00	3.75	31.00	3.10
Methyl Salicylate, Cans.	.62	.62	.57	.40	1.00	.90
Vanillin	.45	.45	.45	.65	.99	.29
Average	2.07	2.10	2.10	2.18	6.83	2.05

In a week without sharp or unusual changes in price or market conditions, steady demand for moderate quantities of essential oils has brought out a good volume of business. Buying has not been feverish or unusually heavy, but a broad absorption by consuming interests has been noted with smaller quantities most in demand. Citronella continues to be a center of interest, many buyers who were caught in the shortage last summer covering now in fair volume for future delivery. Prices both on spot and for shipment are higher. Lemon is stronger on a material increase in interest and purchasing activity by consumers. In spite of the inability of distillers to deliver promptly, spot clove oil prices have softened during the week. Bergamot prices are very weak and have been cut again. Peppermint interest has been aroused by lower prices for shipment from the country.

#### Essential Oils

**Oil Amber**—Lack of interest has softened the spot situation. Crude is offered lower at 65c@68c lb. in tins. Refined in cans is also lower here at 90c@95c lb.

**Oil Anise**—Unchanged and rather slow. Routine call only is reported. Spot technical at 48c@50c lb. U.S.P. at 55c spot unchanged.

**Oil Bergamot**—Heavy imports have only added weight to an already sagging market and spot prices have broken further down the scale. Spot goods, standard brands, are now offered freely at \$2.50 lb. The range is to \$2.75 and \$3.00 as to brand. Demand is very limited, although at present prices bergamot looks like a good buy.

**Oil Cajuput**—Stocks which are available on spot are held higher at 85c lb. for native oil in tins. Higher for shipment and in small supply.

**Oil Caraway**—Quiet with demand not very active. Spot rectified U.S.P. oil at \$6.00@\$6.25 lb. as to seller and quantity.

**Oil Cassia**—Demand steady with spot stocks limited and strongly held. U.S.P., the only grade available on

open market, named unchanged at \$2.10 and \$2.15 lb. for 50 lb. cans to to seller.

**Oil Cedar Leaf**—Stocks offered spot at 85c lb. Some sellers holding at 90c inside.

**Oil Citronella**—Feb.-Mar. shipment from Ceylon and April delivery New York are quoted at 63c or thereabouts. In spite of the predictions that the market in Ceylon would break in a month or so, prices continue to ride upward. Whether the figures quoted for shipment are justified or not is unknown. Ceylon citronella at 70c spot, however, might be a good inducement to use some other product if consumers choose to see it this way. Spot drums are strong at 64c@65c lb. Java oil is firm at 85c@85½c lb. for drums and cans.

**Oil Cloves**—Sales were made last week in the New York trade at \$2.15 lb. for spot clove oil in cans. This week offerings of spot goods from outsiders—distillers cannot offer prompt delivery—are heard somewhat more freely at a quarter less, \$1.90. Last week this could be done from one or two favored sources, but the trade as a whole wanted \$2 or more. All sorts of figures are heard for Mar.-Apr. delivery, but \$1.70@\$1.75 seems to predominate. The spice is strong and a center of interest. Bales spot at 24c@25c.

**Oil Cubebs**—Dull at \$5.75@\$6.00 lb. spot. Berries in good supply on spot and not moving, 82½c, basis U.S.P. quality.

**Oil Eucalyptus**—Small lots mostly in steady demand at 42½c lb. spot drums or cases U.S.P.

**Oil Geranium**—Bourbon has apparently quieted down and is steadier at prices ranging from \$5.50 up to \$6.50 lb. spot.

**Oil Hemlock**—Small lots offered at \$1.45 lb. spot. Reported made from Xmas trees bought up by an enterprising essential oil distiller just after the holidays.

**Oil Lemon**—Buying by consumer accounts during the past week has been more active and prices have reflected a stronger position. Inside for spot coppers is now 70c lb. for standard brands, ranging to 80c named by some sellers. Considerable buying for import is noted in spite of the reports of heavy spot stocks. American oil at 75c lb. spot.

**Oil Lemongrass**—Again higher on advanced shipment position and small offers. Drums spot at 85c and cans at 87½c lb.

**Oil Mustard**—Continues to fluctuate. Down again this week to \$2.75 lb. spot for imported artificial oil. Others asking to \$3.00. New stocks offered from recent imports.

**Oil Orange**—Continues dull and inactive. Buyers apparently are not interested or are evidently afraid of price recessions which do not seem likely on import cost. Sicilian \$2.40; West Indian \$2.20; California \$2.65 lb. spot.

**Oil Peppermint**—Better inquiry based on easier country prices. Consumer interest aroused by slightly lower prices. Spot natural openly named at \$2.90 lb. inside. U.S.P. at \$3.15. Country reported asking \$2.67½ f.o.b. in drums, which is lower.

**Oil Sandalwood**—Very strong and well held at \$7.10 @\$7.15 lb. spot U.S.P. oil. Demand steady.

**Oil Wormseed**—Still offered spot at \$3.85 lb. Some holders asking \$4.00 lb. Quiet and steady.



**Aromatic Chemicals**

**Coumarin**—Demand slightly better. Makers naming \$4.00 lb. unchanged.

**Diethyl Phthalate**—Moving steadily to alcohol producers. Makers name 85c@90c lb.

**Menthol**—Uncertain. Some say weak, others that it is likely to react upward. Spot cases \$8.00 lb. Less cases \$8.25 lb.

**Methyl Salicylate**—Makers firm at 62c lb. cases; 60c drums. Resale lots spot at 55c.

**Phenylethylalcohol**—Wide range as to quality, seller and quantity. Imported \$7.50@9.50 lb. spot, as compared with \$4.00 several months ago. Domestic at \$7.00 @ \$8.00 lb.

**FRITZSCHE BROS. EMPLOYEES DANCE**

The annual dinner and dance of the employees of Fritzsche Bros., Inc., New York essential oil importers, was held at the Hotel Bossert, Brooklyn, on Jan. 20. One of the features of the evening was the singing of old time songs by the gathering. Vocal selections were given by John F. McNamara and William Barnes with Mrs. O. Meyer at the piano. In an elimination dance, the prizes were won by A. Anderson and Miss Sophie Anderson. Short addresses were made by F. H. Leonhardt, vice-president, and Julius Koehler, secretary, of the company. F. E. Watermeyer, president, and William A. R. Welcke, treasurer, also attended. The favors consisted of bon-bon baskets for the ladies and pocket flash-lights for the men. R. R. Redanz was chairman of the Arrangement Committee.

**TOILET ARTICLES SHOW IN APRIL**

The first National Perfumery, Toilet Articles, and Soap Exposition is planned for the week of April 2 to 9 at the Seventy-first Regiment Armory, Park avenue and Forty-third street, New York, by the National Exposition Co. The Toilet Articles Show will be held during the week of the annual meeting of the American Manufacturers of Toilet Articles, April 9 to 14. Space is now being sold to American manufacturers of perfume and toilet articles, and also to firms of the allied industries. The object of the exposition is to appeal direct to the ultimate consumer.

In connection with current discussion of the eight-hour day in German industry, attention has been drawn to the permit granted last week by the Duesseldorf Demobilization Commission to the Bayer factory at Leverkusen to work overtime, according to a report received by the Department of Commerce from the Commercial Attache at Berlin. This permit is generally considered by representatives of labor as a distinct step against the policy of the eight-hour day. The Bayer Company made a statement that the permit in no way indicates any intention on the part of the company to try to abolish the eight-hour day.

The Standard Conveyor Co. has purchased the patents pertaining to the Brown Portable line of conveying, loading and unloading machinery for the handling of packed and loose materials, from the Brown Portable Conveying Machinery Co. of North Chicago, Ill.

A new bill, presented in the Senate by Senator Calder, upon which the Finance Committee has taken favorable action, would entirely reorganize the customs service. Salary limits would be abolished and the appraisers would no longer be political appointees, but would be placed by civil service.

**U. S. TRADE WITH CUBA IN TOILET ARTICLES NEARLY \$1,000,000 ANNUALLY**

**Competition With French Products is Sharp, but America is Now Selling More Fine Soap—Cuban Tariff on Perfumery, Soaps and Containers—Kind of Goods Preferred in Cuba**

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Jan. 31.—The use of powders, rouges, creams and other first aids to beauty is practically universal in Cuba, says Harriet Williams, of the American trade commissioner's office in Cuba. Already America has overcome France in the matter of fine soap, but in the matter of perfumery and cosmetics France still holds the trade. The popular French powder is composed of oxide of zinc, kaolin, talc powder, carbonate of magnesia, and rice powder.

Of rouge all types are used, but the cake form is the most popular. The shades are the same as in the United States; in the cheaper grades a light brilliant rouge color is preferred. Some liquid lip rouge is sold. Lip sticks and eyebrow pencils are the same as in the United States.

The best known cream is a French glycerin preparation which has been on the market many years. It is understood to consist of powdered arrow-root, glycerin, rose water, pulverized oxide of zinc, tincture of benzoin, and tincture of panama.

A wide range of makes and odors of perfumes and toilet waters are sold, the preference being, apparently, for chypre, amber, and other heavier oriental types.

The medicated soaps are sold, especially borated, and other sorts designed to correct oiliness of the skin which the warm climate of Cuba induces. Highly perfumed French soaps sell well but are less popular than American medicated cleansers. Liquid shampoo soap and French shampoo powder have a considerable sale.

Every kind of tooth paste and powder is seen on the market, American makes predominating.

The use of pomades and brillantines for the hair is more common than in the United States. The French brillantines with a vaseline base predominate. The prevailing hair water is eau de quinine.

Imports of perfumery and essences amount to a little over \$2,000,000 a year in value, and of soap to over \$2,200,000. Imports from the United States in eleven months of 1922 have been as follows: Perfumery and toilet waters, \$53,059; talcum and other powders, \$270,304; creams and rouges, \$74,093; dentifrices, \$156,815; other toilet preparations, \$85,321; soap, \$291,966.

Under paragraph 105 (b) and (c) of the Cuban tariff, duty on the ordinary grade of toilet soap is levied at the rate of \$9.10 per 100 kilos (kilo = 2.2046 pounds); while on the finer grades of soaps, including the perfumed and medicinal varieties, the duty is \$15.60 per 100 kilos.

Perfumery and essences are assessed under paragraph 106 as follows: Merchandise the value of which is less than \$1.25 per kilo—\$0.195 per kilo; merchandise exceeding \$1.25 per kilo in value—\$0.195 per kilo plus 19½ per cent ad valorem.

The cases containing essences and soaps, are valued, as follows under paragraph 306: Those made of fine woods or leather, lined with silk and similar materials.—\$0.78 per kilo; cases made of common wood, cardboard, reeds—\$0.208 per kilo.

The W. H. Crawford Co., 1411 Fleet street, Baltimore, has been incorporated with a capital of \$100,000 to manufacture and deal in flavoring extracts and medicines. George Harriman is named as the incorporator.

The Chicago Perfumery, Soap and Extract Association held a meeting at the Elks Club, on Wednesday, Jan. 24, with bowling contests in the evening.

## The Consuming Industries

### Trade Tips for Sellers

The Spruce Falls Co., Kapuskasing, Ont., is operating its recently completed sulfite pulp mill at capacity.

The Normandie Silk Mills, Gloversville, N. Y., will install equipment, in the near future, which will greatly increase their output.

The American Woolen Co. is pushing the construction of its new five-story mill at Medford, Mass. It will cost about \$100,000.

The Ford Motor Co. will build a million dollar glass factory at River Rouge, Mich., adjacent to the blast furnaces and foundries of the company.

The Donna Cona Paper Co., Montreal, Que., has arranged for a bond issue of \$1,000,000 to increase the output of its newsprint plant from 30,000 to 60,000 tons per year.

The Silverstone Stucco & Plaster Products Co., 3323 Park ave., Indianapolis, recently incorporated, will construct a plant for the manufacture of stucco, plaster and lime products. It will cost about \$100,000. John R. Briggs is president of the company.

The Marine Rubber Corp., recently capitalized in Delaware at \$1,250,000, has taken over the Ludington Rubber Co.'s plant at Ludington, Mich. Improvements will be made at once. A. H. Grubber is president and A. W. Newberg vice-president.

The Lowell Bleachery will have its Griffin, Ga., plant operating by the first of April. The initial capacity of 120,000 lbs. weekly can be increased if necessary. Sidney Coolidge, Boston, is president, and Frank Ingram, Griffin, is treasurer of the concern.

The American Woolen Co. announced its 1923 fall fabric price schedule on woollens and worsteds, last week. While the figures caused some relief in both the men's and women's fields they did not entirely dispel the general impression that advances are pending in some quarters.

The National Canners Association held its annual convention, last week, at Atlantic City, N. J. Edward F. Kohman, with the association's research laboratory at Washington, told the members that a process had been devised whereby oxygen could be extracted from fruits and vegetables before they were canned.

Among the cotton mills which are contemplating increasing production by making additions to their plants are the Lincoln Mills of Alabama, Huntsville, Ala. The Bladenboro Cotton Mills, Inc., Bladenboro, N. C., Lapsey & Bros. Co., 30 South Hanover st., Baltimore, the American Mills Co., Hamden, Conn., and the Texas Cotton Mill Co., McKinney, Tex.

The Crane mills, in Massachusetts, were incorporated recently under the name of Crane & Co., Inc., with capital of \$3,000,000. The company will take over the Government and Pioneer mills at Dalton, and the mill at Westfield, where Government note and bond papers are manufactured. The incorporators were Reuben C. Pierce, president, Payson E. Little, treasurer, and Frederick G. Crane, Jr., Dalton, Mass.

The Los Angeles Cotton Mills, Los Angeles, Cal., recently organized with capital of \$1,000,000, will erect a 10,000 spindle plant in the near future. Officers are E. W. Fowler, president; W. H. Whiteside and R. I. Rogers, vice-president of the Merchants National Bank, vice-presidents.

### New Consuming Companies

Cosmopolitan Drug Stores Corp., Wilmington. \$300,000. Colonial Charter Co.

Illinois Glass Co., 402 West Randolph st., Chicago, \$11,000,000. J. M. Lewis, E. M. Ashcroft, Jr., C. J. Lord.

C. J. Layfield Co., Wilmington, \$100,000. To operate bakeries. Horace G. Eastburn, Wilmington.

Standard Bakeries Corp., Wilmington, \$21,500,000. Corporation Trust Co. of America.

Emerson Chemical Corp., New York, \$10,000. J. Behl, M. Hicks; attorney, A. C. Sheer, 149 Broadway.

Imperial Fur Dyeing Co., 164 Market st., Newark, \$100,000. Corporation Trust Co., 37 Wall st., New York City.

Lufberry Co., Elizabeth, N. J., \$100,000. To deal in chemicals for the rubber trade. W. J. Moren, P. G. Cruden.

Rapps Rochester Cleaning & Dyeing, Rochester, N. Y., \$50,000. M. and L. and J. Rapp; attorney, F. B. Whitney, Rochester.

Elyria Rubber Co., Elyria, O., \$50,000. To make rubber products. W. E. Shay, H. Kofsky, C. A. Barth, R. B. Struthers.

Hansen Rubber Products Co., Wilmington, \$250,000. To make rubber products. Corporation Trust Co. of America, Wilmington.

Batavia Holding Corp., New York, \$75,000. To make rubber goods. S. B. Howard, J. V. Reilly, H. C. Hand, 65 Cedar st.

Phymos Chemical Laboratories, Pensacola, Fla., \$45,000. To make and deal in chemicals and chemical preparations. V. J. MacIntire, J. J. MacIntire, W. A. Pourties.

Beyer-Frey Chemical Co., Dover, \$50,000. To make disinfectants and polishing powders. Thomas Beyer, J. H. Frey, J. H. Byrne, Lancaster, Pa.; U. S. Corporation Co., Dover.

Harris Products Co., Tuckahoe, N. Y., \$50,000. To make drugs and medicines. I. F. and E. H. Harris, A. Schmidt; attorney, A. W. Haywood, 62 Broadway, New York.

Charles F. Cramer, Brooklyn, \$15,000. To make chemicals and drugs. F. Sylvia, J. Santos; attorney, B. Freiburger, 25 Beaver st., New York.

Moava Products Corp., Rochester, N. Y., \$650,000. E. W. Hinman, 99 Savannah st., F. W. Townsend, 87 Culver Road, F. W. Clements, 49 Congress ave.

American-Mutual Manufacturing Co., Cleveland, \$150,000. To make rubber products. G. H. Bellman, J. A. Hopkins, C. A. Paterson, J. F. Hower, J. M. Katz.

Cleveland Rubber Products Co., Cleveland, \$750,000. To make rubber tires. B. A. Boerger, G. C. Long, J. N. Wheatley, J. H. Rose, C. L. Thompson.

Continental Tire & Tube Co., Inc., New York, \$100,000. To make automobile tires and tubes. F. H. Butehorn, R. A. MacLean, G. N. Ferris, 37 Wall st.

Duralex Manufacturing Co., 1110 Hippodrome Bldg., Cleveland, \$200,000. To make rubber products. J. G. Blackstock, E. J. Hoffer, H. D. Gottfried, J. S. Silber, J. J. Nessy.

William M. Henry Co., Inc., New York City, \$20,000. To make rubber tires, etc. W. M. and M. Henry, 8 West 72nd st., H. McInerney, 504 West 159th st.

Goody Mints of America, Brooklyn, \$300,000. To make candy. G. L. Rassias, L. B. Case, F. Colety; attorney, P. Crichton, 41 East 42nd st., New York City.

Homeaid Remedy Co., New York, \$10,000. To make drugs and medicines. T. Kahn, L. Jaffe, A. D. M. Longo; attorney, A. Simonoff, 67 Wall st.

Wolmark Chemical Co., 17 West 14th st., New York, \$5,000. To make perfumes. A. C. Wolmark, W. A. Holman, R. Levinson; attorney, E. L. Corbett, 18 Vesey st.

Chex Products Corp., New York, \$250,000. To make toilet articles. V. and S. G. Prager, F. Stein; attorney, A. T. Scharpe, Tribune Bldg.

E. H. Leiston Beverage Co., Chester, N. Y., \$20,000. To make non-alcoholic beverages. E. H. Leiston, A. Mooney, C. P. Downes; attorneys, Reed, Shutt, Downs & Shutt, Rochester.

Milton Canning Co., Dover, \$175,000. To can fruits. S. A. Birdsong, New York City, E. P. Nicholson, Milton, Del., J. C. Milton, Havre De Grace, Md.; rep., Boyce & Magee, Dover.

Washington Paint Remover and Motor Cleaning Co., Washington, Del., \$30,000. M. Lewis, H. D. W. Chadwick; Colonial Charter Co., Dover.

Gibbs & Co., Inc., 2303 Boston st., Baltimore, Md., \$1,500,000. To operate a canning plant. J. S. and E. E. Gibbs, A. D. Graham.

## The Foreign Markets

Imports of Drugs and Chemicals, page 311

FOREIGN EXCHANGE		Par	Current
Great Britain (pound sterling).....	\$4.886	\$4.644	
France (franc) .....	.193	.063	
Italy (lira) .....	.193	.048	
Germany (mark) per hundred.....	23.80	.004	
Czechoslovakia (crown) per hundred.....	20.30	2.850	
Poland (mark) per hundred.....	23.80	.003	
Japan (yen) .....	.499	.483	
Spain (peseta) .....	.193	.156	
Holland (guilder) .....	.402	.394	
Belgium (franc) .....	.198	.057	
Switzerland (franc) .....	.193	.185	
Sweden (crown) .....	.268	.267	
Denmark (crown) .....	.268	.195	
Argentina (peso) .....	.424	.372	
Brazil (milreis) .....	.279	.116	
China (Silver dollar—Hongkong).....	.789	.536	
(Tael—Shanghai, silver) .....	1.082	.726	
(Tael—Peking, silver) .....	1.156	.770	

### CHANGES IN CHINESE TARIFF

The revised Chinese import tariff was made effective on Jan. 17, 1923, according to a cablegram received at the Department of Commerce from Minister Jacob G. Schurman at Peking.

The new tariff represents a complete revision of the Chinese import duties, drawn up in accordance with the agreement of the powers at the Washington Conference of 1921, and designed to assure to the Chinese Government an effective 5 per cent revenue on the value of the goods imported into that country. The tariff classifications have been modified slightly, but the specific duties to which most imported goods are subjected have been calculated as 5 per cent of the Shanghai market values for the six months from October, 1921, to March, 1922. Goods that do not lend themselves to official valuations and those not specifically listed are to be assessed at the rate of 5 per cent ad valorem, to be based upon the domestic wholesale market value of the goods, less the amount of the duty and 7 per cent of the duty-paying value.

The exemptions and restrictions on imports effective under the former tariff have not been materially modified. Special rules have, however, been established for appeal and adjustment in cases of questionable classification or value of imported goods.

The Commercial Arbitration Court, Paris, France, sponsored by the International Chamber of Commerce, was inaugurated last week at the French Court of Appeals. Representatives from foreign countries were present at the ceremonies, where it was announced that a case involving 1,000,000 francs had already been settled, to the satisfaction of all parties concerned.

The great increase in buying of zinc in Europe, towards the latter part of 1922, caused consumers to look to the United States for additional supplies, as resources abroad were taxed to the limit. The European market is now much higher than a few months ago. Stocks on hand Jan. 1 totaled about 30,500 metric tons, of which approximately half is reported held in the United States.

A firm at Oporto, Portugal, is desirous of establishing export and import connections with American drug and chemical houses. The company wants to import a general line of chemicals, medicines and toilet articles, and is able to export ergot. The Philadelphia Commercial Museum, Philadelphia, has the address.

### ALOES CHEAPER IN LONDON MARKET

Jamaica Sarsaparilla Higher—Sennas are Neglected—Drug Auction Results Fair Considering the European Disturbances—Gum Benzoin, Buchu Leaves and Honey Easier

(Special Cable to DRUG & CHEMICAL MARKETS)

London, Jan. 31.—Business in crude drugs and fine chemicals is very quiet this week. The results at Thursday's Drug Auctions were very fair considering the European disturbances.

Aloes are cheaper. Rio ipecac is steady. Sennas are neglected. Jamaica sarsaparilla is higher. The market is easier for gum benzoin, buchu leaves and honey.

London, Jan. 20.—The hopeful outlook with which business opened the New Year has been suddenly darkened by the French advance into the industrial districts of Germany. The immediate result in London has been to depress business generally and the renewed collapse of European exchanges, this time more violent than before, postpones the looked for improvement in foreign trade for some months to come.

Shellac has advanced and the delivery position is higher and stronger on good buying for consumption. Zanzibar cloves continue to advance and the statistical position warrants it. Drugs and chemicals are for the most part quiet but firm, with an improving tendency in carbolic acid, American peppermint oil, hexamine and the salicylates. On the other hand a slight weakening is met with in Japan oil of camphor, quicksilver and menthol, while chloroform and cream of tartar are lower.

Ergot of Rye—Spanish has recovered somewhat from its recent depression and fairly good quality can now be had at 2s per lb to over.

Aloes—Good Curacao of lively fracture commands 90s per cwt, fair seconds 75s and common 55s to 60s per cwt.

Cascara Sagrada is firming up; good matured bark is fetching 80s per cwt and more recent 75s per cwt. Our present stock is about half what it was this time last year.

Menthol has scarcely been mentioned and the market is nominal. Probably 40s would buy it in 5 case lots.

Cloves are again dearer and this week a number of orders have been cabled out for shipment. Present stocks are not a third of what they were last year and speculators have been forced to cover their sales in the open market at a considerable advance. The spot price for fair Zanzibar is 8½d to 9d per lb.

Shellac has been moving off briskly into consumption and is very firm with a further advance established for futures. T.N. usual run is now 370s; 2nd orange 425s to 450s for fine.

Lemon and orange oils are lower for forward shipment of new crop at from 2s 6d to 2s 9d per lb for the former and 7s 9d to 8s per lb for the latter.

Citric acid is steadier at 1s 8d per lb and there is more business doing than of late.

Bromides—Competition is not feared from the Continent, where higher prices are reported than those ruling here, and an early improvement is expected. The following are nearest prices today: Potassium, cryst., 8d per lb; Ammonium, gran., 8½d to 9d; Sodium, gran., 8½d per lb.



# Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

**CLASSIFICATION**—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

**Packages**—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

**QUOTATIONS**—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stock of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted

herein are for goods spot New York or Metropolitan District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

**WEIGHTS AND MEASURES**—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20 American Gallons
1 American Gallon	— .833 Imperial Gallon
1 American Gallon	—3.79 Liters
1 Liter	— .264 American Gallon
1 American Gallon (Water)	—8.35 Pounds
1 Pound (Avoirdupois)	— .454 Kilograms
1 Kilogram	—2.20 Pounds

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## Chemicals

<b>ACETANILID</b> , tech. 150 lb bbls. D			.27	: .28
100 lb kgs. D			.28	: .30
USP 200 lb bbls. D			.28	: .38
Second Hands D			.34	: .35
<b>Acetic Anhydride</b> , 85% 480 lb drs. D			...	: .36
85%, 107 lb chys. D			...	: .37
90% chys. D			...	: .38½
<b>Acetone</b> , CP 700 lb drs. c/l wks. D			...	: .21
700 lb drs. l/c wks. D			...	: .21½
350 lb drs. l/c wks. D			...	: .21½
Second Hands, spot. D			...	: .21
<b>Acetone Oils</b> , light, bbls. gal. 85			.85	: .88
Heavy, bbls. gal. 90			.90	: .93
<b>Acetophenone</b> , CP 1 lb bot. D			4.00	: 4.25
<b>Acetophenetidin</b> , 150 lb bbls. D			1.85	: 1.95
<b>Acetyl Chloride</b> , 100 lb chys. D			.35	: .36
<b>ACID</b> , 1, 2, 4, 250 lb bbls. D			...	: .80
<b>Acetic</b> , 28%, 400 lb bbls. c/l			...	: 3.17½
wks. 100 lb D			...	: 3.42½
28%, l/c wks. 100 lb D			...	: 6.35
50%, c/l wks. 100 lb D			...	: 6.60
50%, l/c wks. 100 lb D			...	: 7.94
70%, bbls. c/l wks. 100 lb D			...	: 8.19
70%, l/c wks. 100 lb D			...	: 9.08
80% coml. bbls. c/l wks. 100 lb D			...	: 9.33
80% coml. l/c wks. 100 lb D			...	: 10.30
80% pure bbls. c/l wks. 100 lb D			...	: 10.30
80% pure l/c wks. 100 lb D			10.55	: 10.85
<b>Glacial</b> , bbls. c/l wks. 100 lb D			...	: 12.05
<b>Glacial</b> , l/c wks. 100 lb D			...	: 12.30
<b>Glacial</b> , USP chys. wks. 100 lb D			...	: 12.30
<b>Acetylaldehyde</b> , 220 lb bbls. D			...	: 1.05
Second Hands D			.90	: 1.00
<b>Anthrone</b> , ton lots drs. D			...	: 1.10
95-98%, 100 lb drs. D			...	: 1.15
99-100%, 100 lb drs. D			...	: 1.30
<b>Benzoin</b> , tech. 100 lb bbls. D			...	: .65
Tech. ton lots bbls. D			...	: .60
USP, 100 lb bbls. D			.72	: .77
<b>Boric</b> , crys. powd. 250 lb bbls. D			.11½	: .12
Kgs. 100 lb D			.12	: .12½
<b>Bromine</b> , 250 lb bbls. D			...	: 1.55
<b>Butyric</b> , 80% pure 5 lb bot. D			.50	: .60
<b>Camphoric</b> , USP VIII 1 lb bot. D			5.50	: 5.60
<b>Carbolic</b> , USP crys. see also Phenol			...	: .37
110 lb tins D			...	: .39
25 lb tins or bot. D			.41	: .42
1 lb bot. D			...	: .46
<b>Liquid</b> , USP 1 lb bot. D			...	: .45
<b>ACID</b> , Carbolic—(Continued)			...	...
Crude, 25% 50 gal bbls. gal			.27	: .30
10% 50 gal. bbls. gal			.22	: .23
<b>Chloroacetic</b>			...	...
mono 100 lb bbls. wks. D			...	: .30
DI, 150 lb chys wks. D			...	: 1.00
Tri, 425 lb bbls. wks. D			...	: 2.45
<b>Chlorosulfonic</b> , 1500 lb drs. D			...	: .15
wks. D			...	: .16
<b>Chromic</b> , USP 200 lb drums. D			...	: .40
85% Pure, 200 lb drums. D			...	: .35
<b>Chromotropic</b> , 300 lb bbls. D			...	: 1.25
<b>Chrysophanic</b> , see Chrysarobin			...	...
<b>Cinnamic</b> , 5 lb cans. D			2.75	: 3.00
<b>CITRIC</b> , USP crys 230 lb bbls. D			...	: .50
Powd., USP 200 lb bbls. D			...	: .51
Imported, crys. 112 lb kgs. D			.48½	: .49
Single kgs. D			...	: .40½
<b>Cleres</b> , 250 lb bbls. D			...	...
<b>Creosylic</b> , 95% dark dr. resale. gal			...	...
97-99% straw, drs. wks. gal			...	...
97-99% straw, drs. imp. gal			...	...
97-99% decolor. drs. wks. gal			...	...
<b>Diethylbarbituric</b> , 10 lb lots, 1 lb bot. D			8.50	: 10.50
<b>Formic</b> , 75% tech. 100 lb chys. D			.16	: .18
90%, 75 lb chys. incl. D			.16	: .18
<b>Gallie</b> , USP 150 lb bbls. D			.70	: .75
<b>Gamma</b> , 225 lb bbls. wks. D			...	: 1.85
bbls., ton lots wks. D			...	: 1.75
<b>Glycerophosphoric</b> , 25% 1 lb b. D			1.65	: 1.70
H. 350 lb bbls. single. D			...	: .80
bbls. ton lots wks. D			...	: .75
<b>Hydrolic</b> , 10% USP 5 lb bot. D			.65	: .70
<b>Hydrobromic</b> , 48% coml. 155 lb chys. wks. D			.35	: .40
48% coml. 10 chys. wks. D			...	: .40
40% USP 155 lb chys. wks. D			.45	: .46
10% USP 100 lb chys. wks. D			.11	: .13
<b>Hydrochloric</b> , see also Acid Muriatic			...	...
CP, USP, 110 lb chys. D			.08	: .09
<b>HYDROFLUORIC</b> , 30% 400 lb bbls. wks. D			...	: .07
30% bbls. c/l wks. D			...	: .06
30% 100 lb chys. wks. D			...	: .07
48% single 100 lb chys. wks. D			...	: .11
48% 10 chys. wks. D			...	: .10
52% 100 lb chys. wks. D			...	: .12
52% 10 chys. wks. D			...	: .11
<b>Acid</b> , hydrofluoric—(continued)			...	...
50% 100 lb chys. wks. D			...	: .14
60% 300 lb drs. wks. D			...	: .13
<b>White Acid</b> , 100 lb chys. wks. D			...	: .36
<b>White Acid</b> , 10 chys. wks. D			...	: .35
<b>Hydrofluosulfic</b> , 35% 450 lb bbls. wks. D			.10	: .13
<b>Hypophosphorous</b> , USP 30% 5 gal. demis. D			...	: .95
USP, 10% 5 gal. demis. D			...	: .35
<b>LACTIC</b> , 22% dark 500 lb bbls. D			.04½	: .05
22% light, bbls. D			.05½	: .06
22% dark, bbls. D			.09½	: .10
44% light, bbls. D			.10½	: .12
66% bbls. D			...	: .16
USP IX 100 lb chys. D			.60	: .70
USP VIII 100 lb chys. D			...	: .55
<b>Laurent's</b> , 250 lb bbls. D			.80	: .85
<b>Metanilic</b> , 250 lb bbls. D			...	: 1.00
<b>Mixed</b> , sulfuric-nitric			...	...
Drums, wks. D			.07½	: .08
Drums, wks. D			.01	: .01½
Tank cars, wks. D			.07½	: .08
Tank cars, wks. D			.009	: .01
<b>Molybde</b> , 85% pure 1 lb bot. D			1.75	: 1.85
85% pure, 100 lb kgs. D			...	: 1.80
<b>Monosulfonic F</b> , Delta. 50 lb tins D			...	: 2.30
<b>MURIATIC</b> , 20° chys. l/c wks. D			1.25	: 1.50
Chys. c/l wks. 100 lb D			1.10	: 1.50
Tank cars, wks. 100 lb D			1.00	: 1.10
18°, 140 lb chys. c/l wks. 100 lb D			1.00	: 1.10
Tank cars, wks. 100 lb D			.90	: 1.00
22°, 140 lb chys. c/l wks. 100 lb D			1.75	: 2.00
Iron, free, 20° chys. c/l wks. 100 lb D			...	: 1.35
Tank cars, wks. net ton 20.00 D			25.00	: 25.00
<b>Muriatic</b> , CP & USP, see Acid Hydrochloric			...	...
<b>Naphthionic</b> , tech. 250 lb bbls. D			.60	: .62
Refined, single bbls. D			...	: .65
<b>Neville &amp; Winter's</b> , 250 lb bbls. D			1.15	: 1.20



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## Chemicals

<b>ACID, NITRIC, 36° 135B</b>		
Chy. wks. ....100B	4.75	: 5.00
Chy. c/l wks. ....100B	4.50	: 4.75
38° single chy. wks. ....100B	5.50	: 5.75
Chy. c/l wks. ....100B	5.25	: 5.50
42° Single chy. wks. ....100B	6.00	: 6.50
Chy. c/l wks. ....100B	5.75	: 6.00
44° Single chy. wks. ....100B	6.75	: 7.50
Chy. c/l wks. ....100B	6.50	: 7.00
C. P. chy. single wks. ....100B	...	: 13.00
Oxalic, 325B bbls. wks. ....B	.12	: .12 1/4
Bbls., NY .....	...	: .13
Keps, 100B .....	.13	: .13 1/4
Imo., 560B cans. ....B	.13	: .13 1/4
Phenylacetic, 1B bot. ....B	2.50	: 3.00
Phosphoric, 50% tech. 100B chy. ....B	.08	: .09
USP, 85% syrupy, 70B demis. ....B	...	: .16
Phthalic, see Phthalic Anhydride		
Picramic, 300B bbls. ....B	...	: .65
Pieric, 300B bbls. ....B	...	: .30
Bbls. car lots wks. ....B	...	: .20
Pyrogallie, crys. 5B cans. ....B	...	: 1.20
Resublimed, 5B cans. ....B	1.55	: 1.60
Tech. powd. 200B bbls. ....B	...	: .80
Salicylic, tech. 125B bbls. ....B	...	: .42
USP, 100B bbls. ....B	...	: .45
Second Hands. ....B	.37	: .40
Sulfanilic, 250B bbls. ....B	.17	: .20
<b>SULFURIC, 66° 175B chy.</b>		
lc/l wks. ....100B	1.25	: 1.50
Chy. c/l wks. ....100B	1.00	: 1.25
1500B Drums, lc/l wks. ....100B	...	: 1.10
Drums, c/l wks. ....100B	...	: 1.00
Tank cars, wks. ....net ton	14.00	: 16.00
60° 1500B Drums, lc/l wks. ....100B	.70	: .90
Drums, c/l wks. ....100B	.60	: .80

<b>Acid Sulfuric</b>		
Tank cars, wks. ....net ton	9.00	: 11.00
C. P. 175B chy. ....100B	.08	: .09
Oleum, 20 p.c. 1500B drums, lc/l wks. ....100B	1.25	: 1.50
Drums, c/l wks. ....100B	1.10	: 1.25
Tank Cars, wks. ....net ton	17.00	: 18.00
Contract cars, wks. ....ton	17.00	: 18.00
Oleum, 40° drs lc/l wks. net ton	...	: 35.00
Oleum, 60° drs, lc/l wks net ton	...	: 65.00
Sulfurous, USP 6% 100B chy. B	.05	: .06
4% 100B chy. ....B	.04	: .05
USP, 5 gal. demis. ....B	.06	: .08
Tannic, tech. 300B bbls. ....B	.40	: .50
USP, powd. 200B bbls. ....B	.70	: .75
USP, fluffy, 50B bbls. ....B	.75	: .80
Tartaric USP cryst 300B bbls. ....B	...	: .32
USP, powd. 300B bbls. ....B	...	: .32
Imp. USP, 240B bbls. ....B	.30 1/4	: .31
Powd. 240B bbls. ....B	.30 1/4	: .31
Tobias, 250B bbls. ....B	1.30	: 1.40
Tungstic, 100B kegs. ....B	...	: 1.00
Aconitine Alk. cryst. 1 oz. vis. oz	...	: 30.00
Amorphous, 1 oz. vis. oz	...	: 20.00
Adeps Lanae, hydrous 350B bbls B	.21	: .22
Anhydrous, 350B bbls. ....B	.23	: .24
Albumen, Egg, edible. ....B	...	: .80
Technical, see Dyes Sundries		
<b>ALCOHOL, USP 190 pf. 50 gal. bbls. ....gal</b>		
Second Hands, bbls. USP 190 pf. ....gal	...	: 4.60
Export, USP 190 pf. ....gal	.37	: .45
Cologne Spirit, 50 gal. bbls. gal	...	: 4.75
<b>WOOD, see Methanol</b>		
Alcohols, also in 50 gal. drums, extra and returnable.		
Amyl, see Oil Fusel		

<b>ALCOHOL—(continued)</b>		
Butyl, 50 gal. drums. ....B	.20	: .22
Cinnamic, liquid, 1B bot. ....B	15.00	: 16.00
Crystallizable. ....B	23.00	: 24.00
Isobutyl, crude 50 gal. drums. gal	...	: 4.40
Refined, 10B can. ....B	...	: .75
Isopropyl, crude 50 gal. drs. gal	...	: 2.25
Refined, 50 gal. drs. ....gal	4.00	: 4.50
Ref'd, 91%, drs. ....gal	...	: 3.50
<b>Methyl, see Alcohol, Wood</b>		
Phenylethyl, see Phenylethylalcohol		
Propyl, nml. crd 50 gal. drms. gal	...	: 4.40
Refined, 10B can. ....B	...	: .75
<b>Denatured</b>		
No. 1 Complete Denat. 188 Proof		
50 gal. bbls. incl. ....gal	.41	: .43
50 gal. drums, extra. ....gal	.35	: .37
No. 1 Special Denat. 190 Proof		
50 gal. bbls. incl. ....gal	.39	: .41
50 gal. drums, extra. ....gal	.33	: .35
No. 5 Complete Denat. 188 Proof		
50 gal. bbls. incl. ....gal	.38	: .40
50 gal. drums, extra. ....gal	.32	: .34
No. 6 Complete Denat. 188 Proof		
50 gal. bbls. incl. ....gal	.38	: .41
50 gal. drums, extra. ....gal	.32	: .34
<b>In addition to the regular authorized formulae for completely denatured alcohol, some 75 formulae for specially denatured alcohol are authorized for special uses. Owing to the limitations of their uses however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue. For prices on specially denatured alcohols not listed above, consult any of the alcohol producers.</b>		



## ZINC OXIDE

Snow Cap Brand 5% Tomahawk Brand 35%

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## Butanol



Pure Normal Butyl Alcohol dissolves many important raw materials.

Its boiling point, 117° C., is 17° above that of water and 39° above that of ethyl alcohol.

At 22° C. one part of Butanol is miscible with 12 parts of water.

The flash point of Butanol is 38° C., that of ethyl alcohol being approximately 11° C.

It is non-hydrous and relatively non-hygroscopic.

It does not corrode metals.

### Commercial Solvents Corporation

Eastern Sales and Export

17 E. 42nd Street

NEW YORK

General Office and Plant

TERRE HAUTE,

INDIANA

Cable address "Comsolvent" New York

London Office

10a FEATHERSTONE BLDGS.

HIGH HOLBORN, W. C. 1

Cable address "Comsolvent" London

## Chemicals

Aloin, USP 100 lb cases.....	.85	: .90
Alpha-Naphthol, tech. 300 lb bbls. ....	1.05	
Ton lots, bbls. wks.....	1.00	
Refined, 300 lb bbls.....	1.10	
Alpha-Naphthylamine, 350 lb bbls. ....	.29	
Ton lots, bbls. wks.....	.28	
<b>ALUM, Ammonia, lump 400 lb bbls.</b>		
wks. ....	3.50	: 3.65
Imp., 500 lb casks.....	3.25	: 3.50
Ground, 400 lb bbls. wks. ....	3.65	: 3.75
Powd., 380 lb bbls. wks. ....	3.90	: 4.00
Chrome, 500 lb cks wks. ....	5.00	: 6.00
Potash, lump 400 lb bbls.		
wks. ....	4.50	
Bbls. c/l wks.....	4.25	
Cont. bbls c/l wks.....	4.25	
Imp. 650 lb casks s.p.....	3.00	: 3.25
Ground, 400 lb bbls. wks. ....	4.35	: 4.60
Imp. 650 lb casks.....	3.00	: 3.25
Powd., 380 lb bbls. wks. ....	4.50	: 4.75
Chrome, 700 lb cks wks. ....	5.50	: 6.00
Soda, grd. 400 lb bbls. wks. ....	4.00	
Bbls. c/l wks.....	3.50	
Aluminum, metal, c/l NY.....	23.00	: 24.00
Chloride, anhyd. 275 lb drs.....	.20	: .23
30% sol. 120 lb chys.....	.03½	: .04
Hydrate, light 90 lb bbls. ....	.17	: .18
<b>SULFATE, Iron-free bags c/l</b>		
wks. ....	2.50	: 2.65
Imported, spot ....	2.50	: 2.60
Comm'l., ¾% iron, bgs. c/l		
wks. ....	1.45	: 1.50

## ALUMINUM SULFATE—(Continued)

Cont. bgs. c/l wks. E. 100 lb	1.40	
Bags, c/l wks. W. 100 lb	1.35	
Bbls., c/l wks. East. 100 lb	1.60	
Bulk, c/l cont. wks. E. 100 lb	1.35	
Amidol, (see Diaminophenol)		
Amidopyrine, 10 lb boxes.....	4.50	: 4.75
1 lb cartons, 10 lb.....	5.16	
Aminocazobenzene, 110 lb kgs.....	1.15	
<b>AMMONIA anhyd. 100 lb cyls.</b>	.30	
Water, 26° 800 lb drs. wks.....	.07½	
Dra. c/l wks.....	.07	: .07½
Imp., 800 lb drs incl spot.....	.08	
26°, 100 lb chys. lc/l wks.....	.09½	
Chys., c/l wks.....	.09½	
20°, 800 lb drs. lc/l wks.....	.08	
Chys., lc/l wks.....	.07½	
18°, 800 lb drs. lc/l wks.....	.05½	
Chys., lc/l wks.....	.07½	
18°, 800 lb drs. lc/l wks.....	.04	
Chys., lc/l wks.....	.05	
Ammonium Acetate, 100 lb kgs.....	.35	: .36
Benzoate, USP 1 lb bot.....	.85	: .90
Bisulfate, 300 lb bbls.....	.22	: .23
100 lb kgs.....	.23	: .24
Bromide, 50 lb boxes.....	.33	
Imported, 112 lb boxes.....	.16	: .17
Carb., tech. 560 lb casks.....	.09½	
Powd., tech. 385 lb bbls.....	.09	
USP, lump, 100 lb kgs.....	.09½	
Powd., 100 lb kgs.....	.08½	
Chloride, Domestic		
White gran. 250 lb bbls. NY.....	.08	
Bbls., c/l wks.....	.07½	
Gray 250 lb bbls, wks.....	.08½	: .08
Bbls., c/l wks.....	.08	: .08½

## AMMONIUM CHLORIDE—(Continued)

Imp., wh. 600 lb casks spot.....	.06½	: .07
Gray, 600 lb casks spot.....	.07½	: .08½
Lump, 500 lb casks spot.....	.14	
Ichthyolate, as to brand.....	.75	: 4.00
Iodide, USP 25 lb jars.....	.45	: 4.85
Lactate, 500 lb bbls.....	.15	: .16
Nitrate, tech. crys. 225 lb bbls.....	.13½	
CP gran. 100 lb kgs.....	.20	: .21
Oxalate, pure, 100 lb kgs.....	.50	: .57
Persulfate, 112 lb cases.....	.55	: .60
Phosphate, dibasic 200 lb bbls.....	.54	: .60
Tech., powd. 325 lb bbls.....	.15	: .17
Salicylate, USP 100 lb kgs.....	.68	: .70
Sulfate, bulk c/l wks.....	3.20	
200 lb single bgs c/l wks. ....	3.30	
200 lb double bags f.a.s. ....	3.55	
Sulfoxyanide, tech. 100 lb kgs.....	.50	
CP, 25 lb jars.....	.60	: .65
Amyl Acetate, tech. 50 gal. drs. gal.	2.50	: 2.65
Pure, 5 gal. cans.....	6.00	: 7.00
Alcohol, see Fuel Oil		
Butyrate, 1 lb bot.....	2.00	: 2.10
Formate, 1 lb bot.....	1.75	: 2.00
Salicylate, 100 lb chys.....	1.50	: 1.50
Anethol, 2 lb bot.....	1.60	: 2.00
<b>ANILINE OIL, 900 lb drs. 5 dr. sp.</b>	.17	
Aniline Salt, 200 lb bbls.....	.24	: .25
Anisic Aldehyde, 1 lb bot.....	4.00	: 4.50
<b>Anthracene, 40-45% 600 lb casks</b>		
wks. ....	.12	: .17
80-85%, 600 lb casks wks.....	.75	: 1.00
Anthraquinone, subl 125 lb bbls.....	1.30	: 1.35
50% paste 350 lb bbls.....	.75	: .80
Antimony metal, slabs ton lots.....	6.75	
Needle Powd., 100 lb cases.....	.06	: .06½

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Antipyrine  
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Arecoline Hydrobromide  
Atropine and Salts  
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Brucine and Salts  
Caffeine and Salts  
Cocaine and Salts  
Codeine and Salts  
Colchicine Alkaloid, U. S. P.  
Colchicine Salicylate  
Creosote, U. S. P.  
Creosote Carbonate  
Cumarin  
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Phenolphthalein  
Pilocarpine and Salts  
Potassium Guaiacol  
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Saponin Purified  
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Sodium Cacodylate  
Sparteine Sulphate  
Strophanthin  
Strychnine and Salts  
Theobromine and Salts  
Veratrine and Salts  
Yohimbin Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK

## Chemicals

<b>ANTIMONY CHLORIDE, anhyd 1000b</b>			<b>Bay Rum, Porto Rican, genuine</b>			<b>Beta-Naphthylamine, tech. 200b.</b>		
dra. ....	b	.35	Denat. salicy acid or tartar emetic			bbis. ....	b	.95
50b crocks ....	b	.48	45 gal. bbis. ....	gal	3.10	Sublimed, 200b bbis. ....	b	1.50
Sol'n 180b carboys. ....	b	.12	Denat. quinine sulf. 45 gal.			Bichloride Mercury, see Mercury Bichloride		
Oxide, 500b bbis. ....	b	.06 1/4	bbis. ....	gal	3.40	BISMUTH metal, 150b cases. ....	b	2.75
Salt, dom. 500b bbis. ....	b	.24	Domestic synthetic, 50 gal.			Second Hands ....	b	2.70
Imp, c.l.f. NY. ....	b	.18	bbis. ....	gal	1.25	Ammon. Citrate, USP 5b bxs. ....	b	5.45
Sulfide, golden 500b bbis. ....	b	.19	Benzaldehyde, tech. 945b dra.			Betanaphtholite, 5b bxs. ....	b	3.10
336b kegs ....	b	.17	wks. ....	b	.65	Citrate, USP 5b bxs. ....	b	2.75
Crimson, 500b bbis. ....	b	.38	USP, 25b cans. ....	b	1.40	Nitrate, 25b jars. ....	b	1.70
336b kegs ....	b	.36	FFC, 25b cans. ....	b	1.70	Oxychloride, 250 bbis. ....	b	3.12
Red, 500b bbis. ....	b	.43				Phenolsulfonate, 5b cans. ....	b	2.90
336b kegs ....	b	.40	<b>BENZENE, 90% 8000 gal. tanks</b>			Salicylate, 250 bbis. ....	b	1.85
Tartrolactate, 500b bbis. ....	b	.45	wks. ....	gal	.27	Subbenzoate, 5b boxes. ....	b	3.08
Antipyrine, USP, 100b cases. ....	b	2.30	110 gal. dra. wks. ....	gal	.32	Subcarbonate, USP 250 bbis. ....	b	3.00
Apomorphine Hydrochloride, 1/2 oz. vis. oz.	oz	16.65	CP Tanks, wks. ....	gal	.30	X-Ray diag. 1b bot. ....	b	3.35
Arecoline Hydrobromide, 1 oz. vial. oz.	oz	12.00	110 gal. dra. wks. ....	gal	.35	Subgallate, USP 175 bbis. ....	b	2.51
Argols, red powd. 350b bbis. ....	b	.07	Benzidine Base, dry 250b bbis. ....	b	.57	Subiodide, 5b lots. ....	b	4.43
Arsenic, metal 220b kegs. ....	b	.23	10 bbl. lots. ....	b	.86	Subnitrate, USP 250 bbis. ....	b	2.65
Red, 224b kegs cases. ....	b	.13 1/4	Benzidine Sulfate, paste 350b			Second Hands, bbis. or less. ....	b	2.45
White, 550b bbis. c/l NY. ....	b	.15	bbis. ....	b	.70	Cones, 1b bot. ....	b	3.65
<b>Aspirin, see Acid Acetylsalicylic</b>						Subsalicylate, USP 175 bbis. ....	b	2.78
Atropine Alk. USP 1 oz. vial. oz.	oz	10.50	<b>Benzol, see Benzene</b>			Tannate 1b bot. ....	b	2.50
Sulfate, 5 oz. in 1 oz. vials. oz.	oz	4.50	Benzonaphthol, 5b boxes. ....	b	2.00	Bismuth Preparations quoted		
Single ounce ....	oz	4.60	Benzoyl Chloride, 500b dra. ....	b	1.00	above on basis 25b lots.		
<b>BARIUM BINOXIDE, see Barium dioxide</b>			Benzyl Acetate, 100b chys. ....	b	1.40	Smaller lots at an advance.		
Carbonate, precip. 800b bbis.			Alcohol, 5b bot. ....	b	1.25	Blanc Fixe, dry 400b bbis. wks. ....	ton	80.00
wks. ....	ton	75.00	Benzoate, 5b bot. ....	b	1.90	Imported, bbis. ....	ton	...
Imports, bbis. spot. ....	ton	70.00	Medicinal FFC			Paste, 650b bbis. ....	ton	40.00
Precip., 200b bgs, wks. ....	ton	70.00	Chloride, 95% tech. 925b dra. ....	b	.20	<b>BLEACHING POWDER, 700b dra.</b>		
Chloride, 800b bbis. wks. ....	ton	90.00	100b chys. ....	b	.25	c/l wks. ....	100b	2.15
200b bgs. wks. ....	ton	90.00	Redistil. 100b chys. ....	b	.35	Drums 1c/l ex-warehouse. ....	100b	2.25
Import, bbis. spot. ....	ton	92.50	Formate, 1b bot. ....	b	2.50	Contract, c/l wks. ....	100b	1.90
Dioxide, 780b dra. ....	b	.18	Berberine Hydrochloride, 1b bot. ....	b	22.00	F. a. s. c/l. ....	100b	...
Import, 500b dra. ....	b	.14	Sulfate, acid or neut. 1b bot. ....	b	22.00	Imported, spot. ....	100b	2.15
Hydrate, 500b bbis. ....	b	.05	<b>BETA-NAPHTHOL, 350b bbis. wks. ....</b>	b	.26	<b>Blue Ointment, see Mercury</b>		
Iodide, 5b bot. ....	b	5.10	Ton lots, wks. ....	b	.24	Mass, see Mercury		
Nitrate, 700b cases. ....	b	.09 1/4	Sublimed ....	b	.55	Bone Ash, 100b kegs. ....	b	.08
Import, cases ....	b	.07 1/4				Black, 200b bbis. ....	b	.08
Sulfocyanide 400b bbis. ....	b	.35						
Barytes, floated 350b bbis. ....	ton	33.50						

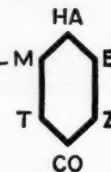
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## Chemicals

Borax, USP cryst. 400 lb bbls...lb	.05½	.05½	CALCIUM CHLORIDE—(Continued)			Carbon Tetrachloride, 1400 lb dra.		
Powdered, USP, 300 lb bbls...lb	.05½	.06	Flake 350 lb dra. c/l dra. feb			Drums, c/l NY...lb	.10½	.10½
Kegs, USP, 100-150 lb...lb	.06	.06½	NY...ton	.30.50		700 lb dra. single NY...lb	.09	.09½
Bordeaux Mixture, powd. bbls...lb	.13	.16	Imp. solid 600 lb dra. spec. ton	.30.50				.10½
Paste, bbls...lb	.08	.10	Anhyd., 350 lb dra. feb NY lb	.12	.13	Carmines, No 40 5 lb boxes...lb	4.50	4.60
Borneol, 1 lb bot...lb		3.50	Glycerophosphate, 250 lb bbls...lb	1.55	1.60	Casein, edib. 100 lb keg...lb	.45	.50
Bromide, see potash, bromide, etc.			Hydrate, (see Lime)			Technical, 200 lb bbls...lb	.28	.30
Bromine, bot. in 60 lb ca. wks...lb		.20	Iodide, 5 lb bot...lb		4.20	Castoreum, 1 lb boxes...lb	4.00	4.50
Bromobenzene, 600 lb drums...lb	.40	.42	Lactate, tech. 500 lb bbls...lb		.13½	Castor Oil, USP 50 gal. bbl...lb		.13
Bromoform, USP 5 lb bot 50 lb ca. lb		1.30	Nitrate, 220 lb bbls. c/l NY ton		40.00	Cases, 80 lb 2 tins...lb		.14
Bromistrol, 25 lb kegs...lb	4.00	4.25	Phosphate, precip. 350 lb bbls...lb	.10	.12	Tech., see Fixed Oils		
Brucine Sulfate, 100 ozs...oz		.20	Phosphate, precip. tribasic 350		.13	Caustic Potash, see potash, caustic		
Butter of Antimony, see Antimony Chloride			lb bbls...lb	.13	.13	Soda, see soda, caustic		
CADMIUM, metal 100 lb bxs...lb	1.15	1.25	Phosphate, mono...lb	.06½	.07½	Cerium Oxalate, USP 100 lb kgs. lb	.48	.53
Bromide, 50 lb cases jars...lb		1.10	Sulfocarbonate, 100 lb kegs...lb	.58	.60	Chalk, drop 175 lb bbls...lb		.03½
Iodide, 10 lb bot...lb		4.20	Calomel, see Mercury			Precip. light 175 lb bbls...lb	.04½	.04½
Sulfide, ca. lb...lb	1.50	1.60	CAMPBOR, Amer. ref. 250 lb			Precip. heavy 560 lb cks...lb	.03½	.04
CAFFEINE ALK. USP 5 lb cans...lb	3.75	4.25	bbls...lb		.96	Bulk...ton	5.00	8.00
Second Hands...lb		3.75	2½ lb slabs, 100 lb ca...lb		.97½	Precip. English, 7 lb bags...lb	.08½	.08½
Hydrochloride, 1 lb bot...lb	7.12	7.32	1 lb cakes, 100 lb ca...lb		.97½	Charcoal, Bone, see bone black		
Sulfate, 1 lb bot...lb		5.50	1 oz. tab., 1 lb ctus...lb		1.01½	Wood, powd. 100 lb bbl...lb	.04	.05
Citrate, 25 lb cans...lb	3.00	3.25	100 lb ca...lb		1.02	Willow, powd. 100 lb bbl...lb	.08	.07
Hydrobromide, 1 lb bot...lb		4.75	½ oz. tab., 1 lb ctus...lb		1.02	China Clay, imp...ton	16.00	22.50
CALCIUM Acetate, 150 lb bgs. c/l		3.50	100 lb ca...lb		.88	Domestic, feb Mine...ton	15.00	17.50
wks...100 lb			Jap. ref. 2½ lb slabs, 100 lb		.88	Chloral Hydrate, USP 100 lb dra. lb	.75	.80
Arsenate, 100 lb bbls. c/l wks...lb	.16	.19	cs...lb		1.00	25 lb jars...lb	.78	.81
Bbls. lb/l wks...lb	.18	.20	1 oz. tab., 100 lb cs. 1 lb		1.02	Chinoidin, 170 lb cases...lb	.65	.75
Bromide, 100 lb cs...lb		.45	tins...lb			Chlorhydrin, Ethylene anhyd, 600 lb		.75
Calcium Carbide, 220 lb dr c/l wks lb		.04½	½ oz. tab. 100 lb cs. 1 lb		.86	drs...lb	.75	.85
Drums lb/l wks...lb		.05	tins...lb		.70	40% soln. 100 lb clys...lb	.25	.30
Carbonate, tech. 100 lb bags		1.10	Chinese ref. 2½ lb slabs 100 lb		.88	CHLORINE, Liquid 2000 lb cyl	.05½	.05½
c/l...100 lb	1.00	1.10	cs...lb		.72	c/l wks...lb	.05½	.05½
USP, precip. 175 lb bbls...lb		.04	Crude, 100 lb cs...lb		1.90	Tank car lots wks...lb	.05½	.05½
Chloride, solid, 650 lb dra. c/l		24.50	Campbor, Monobrom. 100 lb cs...lb		.57½	100 lb cyl. c/l...lb	.05	.06
f o b NY...ton			Caramel, 50 gal. bbls...gal		.75	100 lb cyl lb/l wks...lb	.08½	.07
Gran., 350 lb dra. c/l f o b		30.50	Carbasol, 250 lb bbls...lb		.06½	Chlorobenzene, mono. 1000 lb dra.		.11
NY...ton			Carbon Bisulfide, 500 lb dr., lb/INY lb		.08½	wks...lb	.10	.11
			c/l drums, NY...lb		.08½	drs. c/l wks...lb	.09	.08
			Carbon Black, 12½ lb bags, 150-		.18	Tank car lots wks...lb	.32	.34
			225 lb cases...lb		.35	CHLORFORM, USP 50 lb dra...lb	.32	.34
						Second Hands, 650 lb dra...lb	.33	.35
						Technical, 650 lb drums...lb	.33	.35

## R. W. Greeff &amp; Co.

INCORPORATED

78 FRONT ST., NEW YORK, N. Y.

Offer as Sole Selling Agents

Phthalic Anhydride

manufactured by

THE SELDEN CO.

Pittsburgh, Pa.

Acetone Acetone Oil  
Methyl Ethyl Ketone

manufactured by

NORWICH CHEM. MFG. CO.

East Smethport, Pa.

Oxalic Acid  
Formic Acid 90%

manufactured by

FABRIEK VAN CHEMISCHE  
PRODUCTEN

Schiedam, Holland

Liquid Chlorine

The many advantages in  
the use of Liquid Chlorine  
include these efficient and  
economic elements—It is chemically pure  
It is a 100% bleaching  
agentIt is easy to control  
It entails no waste or loss  
It insures cleanliness of  
operation.

Electro Bleaching Gas Co.

PIONEER MANUFACTURERS OF LIQUID CHLORINE

Plant NIAGARA FALLS, N. Y.

Main off. 18 E. 41st St., New York Chicago off 11 So. La Salle St

## Chemicals

Chromium Acetate, 20° soln. 400 lb bbls. ....	.08	: .10	COD LIVER OIL, Norwegian, 30 gal. bbls. ....	21.75	: 23.00	Cyanamide, bulk c/l wks. amm. unit ...	: 3.25
Fluoride, Powd. 400 lb bbls. ....	...	: .50	Newfoundland, 30 gal. bbls. bbl ...	...	: ...	DIAMINOPHENOL, 100 lb kegs. ....	: 3.75
Soln. 400 lb bbls. ....	...	: ...	Colchicine alk. USP 1 oz. vial. ....	...	: 30.00	Dianisidine, 100 lb kegs. ....	: 4.50
Sulfate, 400 lb bbls. ....	.07	: .09	Salicylate, 1 oz. vial. ....	...	: 45.00	Dichlorobenzene, 1000 lb drs. ....	: .08
Chrysarobin, USP 5 lb cans. ....	2.10	: 2.25	Colloidon, USP 30 lb drums. ....	.22	: .23	Diethylaniline, 850 lb drs. ....	: .60
Cinchonidin alk. pwd. 100 oz. tins. ....	...	: .70	Flexibile, USP 30 lb drums. ....	.27	: .28	Diethyl Phthalate, 25 lb cans. ....	: .85
Crystal	...	: .75	COPPER, metal electrolytic c/l			Diethyl Sulfate tech. 50 gal. drs. ....	: .20
Sulfate, 100 oz. tins. ....	.49 1/2	: .50	NY	...	: 15.00	CP drums	: .40
Cinchonine alk. pwd. 100 oz. tins. ....	...	: .35	Lake, c/l NY. ....	15.12	: 15.25	Digitalin, Pure, 1 oz. vial. ....	: 7.75
Crystal	...	: .45	Casting, c/l NY. ....	14.50	: 14.75	Dimethylaniline, 840 lb drs. wks. ....	: .40
Sulfate, 100 oz. tins. ....	...	: .35	Carbonate, 400 lb bbls. ....	...	: .19	Dimethylsulfate, 110 lb drs. ....	: .50
Cinnamic Alcohol, see Alcohol Cinnamic			Cyanide, 100 lb drs. ....	.58	: .60	Dinitrobenzene, 400 lb bbls. ....	: .19
Cinnamic Aldehyde, 1 lb bot. ....	3.75	: 4.00	Oxide, 1000 lb bbls. ....	.15 1/2	: .16	Dinitrochlorobenzene, 400 lb bbls. ....	: .19
Citral, 25 lb cans. ....	2.80	: 3.25	Carlots, bbls. ....	.15	: .15 1/2	Dinitronaphthalene, 350 lb bbls. ....	: .30
Citrine Ointment, see Mercury			Sub-Acetate, verd. 440 lb bbls. ....	.35	: .37	Dinitrophenol, 350 lb bbls. ....	: .33
Citronellal, 1 lb bot. ....	2.00	: 2.25	SULFATE, crys. 450 lb bbls. lc/l			Dinitrophenol, 350 lb bbls. ....	: .33
Citronellol, 1 lb bot. ....	8.00	: 12.00	spot	6.25	: 6.50	Dinitrotoluene, 300 lb bbls. ....	: .19
Cobalt metal, 100 lb kegs. ....	3.00	: 3.25	Carlots, bbls, spot. ....	6.00	: 6.25	Dionin, see Morphine, Ethyl	
Cobalt Oxide, 500 lb bbls. ....	...	: 2.10	Imp. 550 lb cals. ....	5.50	: 5.60	Diphenylamine, 250 lb bbls. ....	: .50
10 lb tins 200 lb cases. ....	...	: 2.35	Powdered, 350 lb bbls. lc/l			Diphenylchloride, 500 lb drums. ....	: .85
COCAINE alk. USP, 1 oz. vial. ....	...	: 11.00	spot	7.50	: 8.00	Dover's Powder, USP 5 lb tins. ....	: 2.20
Hydrochloride, USP—1 oz. vials,			Carlots, bbls, spot. ....	7.25	: 7.50	Duboisine Sulfate, 1 oz. vial. ....	: 60.00
25 ozs. ....	...	: 7.07	Copperas, bulk c/l wks. ....	20.00	: 21.00	EARTH, Diatomaceous, see Kieselguhr	
In 1/4 oz. vials. ....	...	: 7.50	400 lb bbls. c/l wks. ....	...	: 25.00	Emetine, alk., 15 gr. vis. ....	: 1.65
In crystals, granular, powder,			200 lb bgs. c/l wks. ....	...	: 23.00	Hydchlde, USP 1 oz. vial. ....	: 19.00
or flaky crystals as desired.			Powdered, bbls. ....	3.45	: 3.75	15 gr. vials. ....	: .75
Cocoa Butter, bulk, 200 lb bales. ....	.31	: .33	Corn Syrup, 42 deg. 50 gal. ....	...	: 3.02	EPSON SALT, tech. 300 lb bbls.	
Fingers, cakes, etc. 12 lb bxs. ....	.36	: .37	bbls. ....	2.77	: 3.07	NY	: 2.25
CODEIN alk., 5 oz. cans 10 oz			43 deg. 50 gal. bbls. ....	2.82	: 3.07	Bbls. c/l NY. ....	: 2.10
lots	...	: 7.30	Corrosive Sublimates, see Mercury Bichloride			100 lb bgs. c/l NY. ....	: 1.85
Hydrobromide, 10 ozs. ....	...	: 5.85	Cotton Soluble, 100 lb bbls. wet. ....	.40	: .42	Imp., 220 lb bgs. c/l	
Hydrochloride, 10 ozs. ....	...	: 6.55	Coumarin, 25 lb tins. ....	4.00	: 4.25	NY	: 1.10
Nitrate, 10 ozs. ....	...	: 6.55	CREAM TARTAR, USP 300 lb			USP, 300 lb bbls. 10 bbls. 100 lb	: 2.75
Phosphate, 10 ozs. ....	...	: 5.50	bbls. ....	...	: 26 1/2	Carlots, bbls. ....	: 2.25
Salicylate, 10 ozs. ....	...	: 5.50	Imp. powd. USP, 224 bbls. ....	.23	: .24	Imported, 300 lb bbls. ....	: 2.50
Sulfate, 10 ozs. ....	...	: 5.85	Creosote, USP, 42 lb chys. ....	.40	: .45	Ergotin, Bonjean, 1 lb jars. ....	: 9.50
Small Sizes, 1/4 oz. vials, 50c extra,			Creosote Oil, 50 gal. drs. ....	.20	: .22	Eserine alk., 1 oz. vial. ....	: 30.60
1/4 oz. 25c extra, singles 7c extra			Carbonate, 1 lb bot. 25 lb ....	1.60	: 1.70	Salicylate, USP 1 oz. vial. ....	: 25.00
per oz.—25 oz. lots, 10c. cheaper			Cresol, USP, 400 lb bbls. ....	.25	: .27	Sulfate, USP VIII, 1 oz. vial. ....	: 20.00
than above. Less than 10 ozs. 15c. oz.							
higher than above							

FORMALDEHYDE

MECCO

The Miner Edgar Company  
 Rail and Water Facilities  
 110 William Street  
 New York

## Chemicals

ETHER, USP 55 lb drums.....D	.13	: .15	Fluorspar, 95% 220 lb bgs. ex			GLYCERIN, C. P. 550 lb drums. D	...	: .18 1/4
Anaesthesia, 55 lb drums.....D	...	: .16	doek .....ton	...	: 25.00	Cans, 50 lb .....D	...	: .20
USP, 1880 55 lb drums.....D	...	: .38	96% bgs. ....ton	...	: 33.50	Dynamite, 1000 lb drs.....D	...	: .18
Washed, 55 lb drums.....D	...	: .30	98% bgs. ....ton	...	: 35.00	Saponification, tanks .....D	...	: .13
Motor, 1 lb cans.....D	.26	: .27	FORMALDEHYDE, USP 400 lb bbls.			Soap, Lye, tanks.....D	...	: .12
Ether, Nitrous, 1 lb bot.....D	.92	: .95	e/l wks. ....D	...	: .16	Gua Powder, see chrysarobin		
Ethyl Benzyl Aniline, 300 lb drs. D	...	: 1.30	Carboys, 100 lb lc/l wks.....D	...	: .16 1/4	Graphite, crude 220 lb bags.....ton	15.00	: 35.00
Ethyl Acetate, 99% 50 gal. drs. gal	.95	: 1.05	Bbls. 400 lb lc/l wks.....D	...	: .16 1/4	Flake, 500 lb bbls.....D	.06	: .10
85-90% Ester, 50 gal. drs. gal	...	: .85	Fuller's Earth, 200 lb bgs. e/l			Ground, lump, bbls.....D	.04	: .05
Carlota, drums .....gal	...	: .82	mines .....ton	15.00	: 17.00	Guaiaecol Liquid, USP 25 lb. cans. D	2.50	: 2.60
Tank Cars .....gal	...	: .70	Imported, 230 lb bags NY.....ton	35.00	: 40.00	Benzoate, 1 lb bot.....D	...	: 18.00
Pure, 5 lb bot.....gal	3.25	: 3.50	Fusel Oil, refined, 100 gal drs. gal	3.00	: 3.50	Carbonate, 5 lb boxes.....D	4.25	: 4.50
Benzoate, 5 lb bot.....D	1.85	: 2.00	Crude, 100 gal drs.....gal	...	: 2.00	HAARLEM OIL, Dom. 6 gr. cs. gross	...	: 3.50
Bromide 115 lb drs.....D	...	: .40	G. SALT, paste 350 lb bbls. basis			Imported, 5 gr. cases.....gross	5.25	: 5.30
Butyrate, 5 lb bot.....D	2.00	: 2.25	100% .....D	.60	: .65	Heliotropin, 10 lb bot.....D	2.50	: 2.75
Methyl Ketone, 50 gal. drums. D	.19	: .20	Gelatin, USP silver bbl. 100 lb cs. D	.85	: .90	Hexamethylenetetramine, USP		
Morphine, see Morphine, Ethyl			Gold Label, 100 lb cases.....D	...	: .65	100 lb drums .....D	.95	: .97 1/4
Chloride, 15 lb cyl.....D	...	: .50	Technical, 100 lb cases.....D	.60	: .65	Imported .....D	.75	: .80
Cinnamate, 1 lb bot.....D	5.00	: 5.50	Geranol, 50 lb cans.....D	2.75	: 3.50	Rubber Makers, Impalp. Pd.		
Formate, 5 lb bot.....D	1.00	: 1.10	Geranyl Acetate, 1 lb bot.....D	5.75	: 6.00	drs.....D	...	: .95
Valerate, 5 lb bot.....D	4.50	: 4.75	GLAUBER'S SALT, tech. 200 lb bags			Homatropine Hydrobrom. USP 1 oz.		
Ethylene Bromide, 600 lb drs.....D	...	: .60	e/l wks. ....100 lb	1.10	: 1.25	vial .....oz	...	: 18.00
Glycol .....D	.65	: 1.00	350 lb bbls. c/l wks.....100 lb	1.25	: 1.40	Five ozs., 1 oz. vials.....oz	...	: 17.00
Chlorhydrin, anhyd. 50 gal drs. D	.75	: .85	Bbls. lc/l wks.....100 lb	1.50	: 1.75	Hydrastine Alk., USP, 1 oz. vial. oz	...	: 20.00
40% Solution, 50 gal. bbls. D	.25	: .30	Imported, bbls. spot.....D	1.00	: 1.10	Hydchlide, USP, 1 oz. vial.....oz	...	: 20.00
Dichloride, 50 gal. drs.....D	.20	: .25	USP, 300 lb bbls. Imp. sp. 100 lb	...	: 1.25	Sulfate, 1 oz. vial.....oz	...	: 22.00
Eucalyptol, 25 lb cans.....D	.80	: .85	USP, 300 lb bbls. dom. sp. 100 lb	...	: 1.75	Hydrastinine Hydchlide, USP 15 gr.		
Eugenol, 25 lb cans.....D	3.25	: 3.50	USP, 300 lb bbls. c/l wks. 100 lb	...	: 1.40	vials .....vial	...	: 2.40
Feldspar, bulk .....ton	20.00	: 25.00	Glucose, (Grape Sugar) dry, 100			Hydrazobenzene, 100 lb kegs.....D	1.30	: 1.35
FERRIC CHLORIDE, tech. crys.			bags, c/l NY.....100 lb	3.09	: 3.19	HYDROGEN PEROXIDE, 25 vol. 400 lb		
475 lb bbls.....D	...	: .10	Syrup, Drs. & bbls. c/l NY 100 lb	2.77	: 3.02	bbls.....D	...	: .10
Imported .....D	...	: .07	lc/l NY .....100 lb	...	: 3.12	USP Soln. 375 lb bbls.....D	.05	: .05 1/4
USP. crys. 100 lb kegs.....D	...	: .10	GLUE, pure white, bbls.....D	.30	: .35	USP bot. 4 oz. cases.....gross	7.50	: 7.75
Imported .....D	...	: .09	Medium white, bbls.....D	.25	: .30	Bot. 8 oz. cases.....gross	11.00	: 11.25
Tech. Sol'n 40° 140 lb chys. D	...	: .06 3/4	French, bbls.....D	.18	: .25	Bot. 16 oz. cases.....gross	18.50	: 18.75
48°, 140 lb chys.....D	...	: .08	High Grade, bbls.....D	.35	: .40	Hydroquinone, 100 lb kegs.....D	1.05	: 1.20
USP Sol'n 125 lb chys.....D	...	: .06 1/4	Bone, regular, bbls.....D	.10	: .12	Hyoscine Hydrobrom. USP 1 oz.		
Ferrous Chloride, crys. tech.			Fish, bbls. ....gal	1.50	: 1.75	vial .....oz	...	: 21.00
475 lb bbls. ....D	.06	: .06 3/4				Five ozs., 1 oz. vials.....oz	...	: 20.50
Ferrous Sulfide, 1000 lb bbls. 100 lb	2.50	: 3.00						
Flake White, see lead, white								

# Formaldehyde

Solution U.S.P.



P.A.C. BRAND

## PERTH AMBOY CHEMICAL WORKS

709 SIXTH AVE., NEW YORK





## Chemicals

Manganese—(continued)			METHANOL (Wood Alcohol)			NAPHTHA, Solvent, 110 gal. dra.			
Glycerophosphate, 5 lb. tins....	D	3.05	95%, 50 gal. drms. ext....	gal	1.15	1.17	wks. ....	gal	32
Hypophos. USP VIII 5 lb. cans. D		1.65	97%, 50 gal. drms. ext....	gal	1.18	1.19	8000 gal. tank car wks....	gal	27
Iodide, 1 lb. bot.....	D	6.25	Pure, 50 gal. drms. ext....	gal	1.25	1.27	NAPHTHALENE, Flake, 175 lb. bbls.		
Ore, bulk NY.....	unit	.30	Acetone free, 50 gal. drms. ext. gal		1.30	1.40	wks. ....	D	.08 1/2
Sulfate, 600 lb. casks NY....	D	.11	Bbls. incl. 5c higher				Bbls. c/l wks....	D	.07
Marble Flour, bulk.....	ton	10.00	Methyl Acetone, 100 gal. drums. gal		.75		Bbls., second hands NY....	D	.08 1/2
See also Calcium Carbonate			Tank cars .....	gal	.70		Balls, 250 lb. bbls. wks....	D	.07 1/2
MENTHOL, USP, 60 lb. cases....	D	8.00	Anthranilate, 1 lb. bot.....	D	4.00	4.50	Bbls. c/l wks....	D	.07
Less cases, 5 lb. tins.....	D	8.25	Chloride, 90 lb. cysl.....	D	.50		Crushed bgs. wks....	D	.05
MERCURY, metal, 75 lb. flask....	flask	72.00	Cinnamate, 1 lb. bot.....	D	4.50	5.00	Crude, imp., bgs....	D	.02 1/2
Less Flasks, 5 lb. jugs.....	D	1.02	Paracetamol, 1 lb. bot.....	D	.80	.90	Nerolin, 1 lb. tins....	D	1.75
Bichloride, cryst. 25 lb. bxs....	D	1.17	Salicylate, USP, 50 lb. cases....	D	.82		Nickel Metal, electrolytic 100 lb.		
Gran. powd., 200 lb. kegs....	D	1.02	500 lb. drums .....	D	.60		kegs .....	D	.36
Bisulfate, 25 lb. boxes.....	D	.86	Second Hands, cases....	D	.50	.52	Shot, 100 lb. kegs....	D	.37
Blue Mass, 25 lb. boxes.....	D	.62	Methylene Blue, tech. 100 lb. kgs. D		1.00	1.50	Salt, single 400 lb. bbls. NY. D		.07 1/2
Powdered, 25 lb. boxes.....	D	.64	USP, medicinal 5 lb. cans....	D	2.25	2.60	Double, 400 lb. bbls. NY....	D	.08
Blue Ointment, USP 25 lb. cans			Michler's Ketone, 225 lb. bbls....	D	.375		Oxide, 100 lb. kegs NY....	D	.40
50% .....	D	.80	Milk, powd. 150 lb. bbls....	D	.14	.15	Nitre Cake, bulk wks....	ton	6.50
USP, dilute 25 lb. cans 30% D		.62	Milk Sugar, see sugar of milk				500 lb. bbls. ....	ton	9.00
33 1/3% Mercury.....	D	.67	Mineral Oil, see oil mineral				Nitrobenzene, crude 1000 lb. dra.		
Calomel, 50 lb. bxs.....	D	1.25	Mono-chlorobenzene, see chlorobenzene				wks .....	D	.09 1/2
Citrine Ointment 25 lb. jars....	D	.50	Monoethylaniline, 900 lb. drs....	D	1.00	1.05	Redistilled, 1000 lb. dra. wks. D		.10
Iodide, green 25 lb. jars.....	D	3.86	MORPHINE Sulfate, USP 5 oz. tins				Nitronaphthalene, 550 lb. bbls....	D	.20
Red, USP 25 lb. jars.....	D	3.96	10 oz. ....	oz.	5.35		Nitrotoluene, mixed 1000 lb. dra.		.14
Yellow, USP VIII 25 lb. jars....	D	3.86	Acetate, 5 oz. tins 10 oz. lots....	oz.	5.35		wks. ....	D	.15
Red Precip. USP 25 lb. bxs....	D	1.38	Hydrobromide, 5 oz. tins 10 oz.	oz.	5.35		Oil Fuel, see Fuel Oil		
Powder, USP 25 lb. bxs....	D	1.48	lots .....	oz.	5.35		OIL MINERAL, wh. 50 gal. bbls. gal		1.00
White Precip. USP 25 lb. bxs....	D	1.49	Hydchloride, 5 oz. tins 10 oz.	oz.	5.35		Oil Mirbane, see nitrobenzene		
Powder, USP 25 lb. bxs....	D	1.54	lots .....	oz.	5.35		Optum, see crude drugs		
With chalk, USP 25 lb. bxs....	D	.62	Diethyl Alk., 1/4 oz. via 10				Orange Mineral, 800 lb. casks NY. D		.12 1/2
Meta-Nitroaniline, 300 lb. bbls....	D	.80	oz. ....	oz.	8.95		500 lb. bbls. NY.....	D	.14
Meta-Nitro-para-Toluidine, 300 lb.			Hydchloride, 1/4 oz. via 10 oz. via	oz.	8.10		Ortho-Aminophenol, 50 lb. kegs....	D	2.35
bbls. ....	D	2.25	Ethyl Hydchloride, 1/4 oz. via 10	oz.	9.45		Ortho-Anilidine, 100 lb. dra....	D	2.00
Meta-Phenylenediamine, 300 lb.			Small Sizes: 1/4 oz. vials, 50c extra;				Ortho-Dichlorobenzene, 1000 lb. dra.		.15
bbls. ....	D	1.00	1/4s 25c extra; single oz. via, 7c ex-				wks. ....	D	.17
Meta-Toluylenediamine, 300 lb.			tra, over price for 5 oz. tins. 25 oz.				Ortho-Nitrochlorobenzene, 1200 lb.		.32
bbls. ....	D	.95	lots in 5 oz. tins, 10c oz. lower than				dra. wks. ....	D	.35
			above schedule. Less than 10 oz. lots				Ortho-Nitrophenol, 350 lb. bbls....	D	.80
			15c oz. higher than above schedule.						.85
			Musk Ambrette, 1 lb. cans....	D	15.00	16.00			
			Ketone, 1 lb. cans....	D	14.00	14.50			
			Xylene, 5 lb. cans....	D	3.25	3.50			

# "Baker's"

A few of "Baker's" dependable chemicals that are in constant demand

Acid Molybdic  
Acid Phosphoric Anhydride  
Ammonium Molybdate, cryst  
Ammonium Persulphate, 98%  
Calcium Chloride, anhydrous granular  
Copper Chloride, cupric  
\*Nickel Formate  
Potassium Binoxalate  
Potassium Thiocyanate  
Sodium Oxalate  
Tin Crystals

\*Nickel Formate has been demonstrated to be a superior catalyst for oils. Many concerns are changing through preference for it.

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Vanderbilt 9490

# Dependable CHEMICALS

## FOR INDUSTRIAL USE

## Chemicals

Ortho-Nitrotoluene, 1000 lb. drs. wks. ....	.10	: .12	Para-Phenylenediamine, 350 lb. bbls. ....	1.50	: 1.55	Phosphorus, red 110 lb. ca. wks. lb. Imported, 112 lb. cases. ....	.35	: .50	.30
Ortho-Toluidine, 350 lb. bbls. ....	.14	: .16	Para-Toluene-Sulfonamide, 175 lb. bbls. ....	.40	: .41	Phosphorus Sesquisulfide, 105 lb. ca. wks. ....	...	: .37%	
Oxgall, USP 5 lb. bot. ....	...	: 3.00	Para-Toluene-Sulfonchloride, 410 lb. bbls. wks. ....	.11	: .13	Phosphorus, yellow 110 lb. ca. wks. lb. Imported, 112 lb. cases. ....	.32	: .35	.27%
PALLADIUM, metal 10 ca. lots ...	51.00	: 53.00	Para-Toluidine, 350 lb. bbls. wks. lb. ....	.78	: 1.15	Phosphorus Trichloride, 175 lb. cyl. wks. ....	.30	: .35	.40
Pancreatin, USP 5 lb. bot. ....	1.25	: 1.40	PARIS GREEN			Phthalic Anhydride, 175 lb. bbls. lb. ....	.35	: .40	
Papain, 1 lb. bot. ....	2.15	: 2.35	Arsenic Basis, 500 lb. kegs. ....	.27	: .28	Pilocarpine Hydrochloride, USP 25 ca. lots, 1 ca. vials. ....	...	: 8.00	
Paraffin, ref'd. 200 lb. ca. alabs			Kegs. 100 lbs. ....	...	: .30	Nitrate, ....	...	: 8.00	
120-125 Deg. M. P. ....	.03%	: .03%	Kits, 56, 28, 14 lbs. ....	...	: .31	Single ounces ....	...	: 8.25	
125-130 Deg. M. P. ....	.04	: .04%	Packages, 5 and 2 lbs. ....	.32	: .34	Alkaloid, 15 gr. vis. ....	...	: .75	
130-135 Deg. M. P. ....	.04	: .04%	Packages, 1 lb., 1/2, 1/4 lb. ....	.34	: .36	Piperazine Hydrate, 1 lb. bot. ....	...	: 16.00	
135-140 Deg. M. P. ....	.05	: .06%				Fitch, Coal-Tar wks. ....	30.00	: 33.00	
Para-Aminocetanilid, 100 lb. kegs. ....	1.25	: 1.35	Paris White, see whitening, French			Plaster Paris, tech. 250 lb. bbls. bbl. True Dental, 300 bbls. ....	...	: 3.30	4.50
Para-Aminophenol, 100 lb. kegs. ....	1.15	: 1.25	Pepsin, USP 5 lb. bot. ....	2.25	: 2.50	Platinum, metal soft 10 ca. lots. ....	...	: 110.00	
Hydrochloride, 100 lb. kegs. ....	1.20	: 1.25	PETROLATUM, green 300 lb. bbls. lb. ....	.02%	: .03	Podophyllin, 5 lb. bot. ....	5.75	: 6.00	
Para-Anisidine, 100 lb. kegs. ....	3.00	: 3.25	Dark Amber 300 lb. bbls. ....	.03%	: .04	POTASH, CAUSTIC, solid 88-92% 700 lb. drs. wks. ....	...	: .08	
Technical, kegs. ....	1.65	: 1.75	Light Amber, 300 lb. bbls. ....	.03%	: .04	Imp., 88-92% 700 lb. drs. NY. ....	.07	: .07%	
Para-Dichlorobenzene, 270 lb. bbls. wks. ....	.18	: .22	Cream White, USP 300 lb. bbls. lb. ....	.07	: .07%	USP, by alcohol 5 lb. cans. ....	.46	: .48	.35
Paraldehyde, 100 gal. drs. ....	...	: .35	Lily White, USP, 300 lb. bbls. lb. ....	.09	: .09%	cases ....	.30	: .35	
Paraformaldehyde, USP 100 lb. ca. lb. ....	.52%	: .55	Snow White, USP 300 lb. bbls. lb. ....	.12%	: .13	POTASSIUM Acetate, USP 100 lb. kegs. ....	.28	: .29	
Para-Nitrosocetanilid, 300 lb. bbls. ....	.55	: .60	PHENOL, see also acid carbolle			Bicarbonate, crys. 220 lb. bbls. lb. ....	.07%	: .08	
PARA-NITROANILINE, 300 lb. bbls. wks. ....	.74	: .76	Open market, 950 lb. drs. ....	.33	: .35	Bichromate, crys. 900 lb. cases wks. ....	.10	: .10%	.13%
Para-Nitrochlorobenzene, 1200 lb. drs. wks. ....	.26	: .28	240 lb. des drs. ....	.32	: .34	Powd., 900 lb. cases wks. ....	.13	: .13%	
Para-Nitro-ortho-Toluidine, 300 lb. bbls. ....	2.75	: 2.85	Natural 240 lb. des drs. wks. ....	...	: ...	Binolate, 300 lb. bbls. ....	.34	: .38	
Para-Nitrophenol, 185 lb. bbls. ....	.72	: .75	Imported, 336 lb. des drs. ....	.35	: .45	Bisulfate, C.P. 5 lb. cans. ....	...	: .30	
Para-Nitrosodimethylaniline, 120 lb. bbls. ....	...	: 1.14	Phenolphthalein, USP 100 lb. drs. ....	...	: 1.50	100 lb. kegs. ....	...	: .22	
Para-Nitrotoluene, 350 lb. bbls. ....	.65	: .67	50 p.c. ....	1.55	: 1.60	Bromate, 100 lb. ca. ....	...	: .45	
Para-ox-Benzaldehyde, 100 lb. kegs. ....	1.50	: 1.60	Phenylacetaldehyde, C.P., 1 lb. bot. ....	12.50	: 14.00	BROMIDE, USP crys. 450 lb. bbls. ....	...	: .26	
Para-Phenetidin, 500 lb. drs. ....	1.35	: 1.40	50 p.c. ....	7.50	: 8.00	Granular, 300 lb. bbls. ....	...	: .26	
			Phenylacetic Acid, 1 lb. bot. ....	3.00	: 4.00	Cases, 100 lb. ....	...	: .27	
			Phenyl-Alpha-Naphthylamine 100 lb. kegs. ....	...	: ...	Imported, USP, 220 lb. ca. ....	.14%	: .15	
			Phenylethylalcohol, 1 lb. bot. ....	7.00	: 9.00				
			Imported ....	...	: 12.50				
			Phosgene, cylinders, wks. ....	.60	: .62				
			Phosphorus Oxide, 175 lb. cyl. ....	.30	: .32				



## Dimethylaniline

THE difference of a few cents a pound in the purchase price can never compensate for the heavy loss in yield of finished product that results from the use of inferior organic chemicals.

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Specifications on Request



## Chemicals

## POTASSIUM—(Continued)

<b>CARBONATE, 80-85% calc.</b>		
800 lb cks. ....	.05%	.06
<b>80-85%, hydrated, 800 lb.</b>		
cks. ....	.07%	.07%
90-95% casks ....	.06%	.06%
96-98% casks ....	.07%	.07%
99% casks ....	.08	.08%
USP, 100 lb kegs ....	.10	.11
Chlorate, crys. 112 lb kgs wks. lb	.08%	.08%
Imp. 112 lb kegs NY ....	.07%	.07%
Powd., 112 lb kegs wks. ....	.08%	.08%
Imp. kegs NY ....	.07%	.07%
Pyrotechnic, fine powd. NY. ....	.08	.09
USP, fine crys. 110 lb kegs		
NY ....	.08	.09
Citrate, USP 10 lb cans. ....	.63	.66
Glycerophosphate, 75% Soln. 25 lb		
tins ....	1.85	1.70
Guaicol Sulfonate, 5 lb cans,		
10 lb ....	1.50	1.75
Hypophosphite, 10 lb cans. ....	...	.85
Iodide, USP, 100 lb cans. ....	3.60	3.65
Second Hands, cases. ....	...	3.55
Lactophosphate, 4oz bot. ....	...	.90
Metabisulfite, 300 lb bbls. ....	...	.23
Imp., 300 lb bbls. ....	.15	.17
Muriate, 80%, 200 lb bags, NY		
K <sub>2</sub> O unit ....	...	.70
Nitrate, see Saltpetre		
Oxalate, neutral, 100 lb kegs. ....	.40	.45
Perchlorate, 112 lb kegs. ....	.09	.10
Permangan, USP crys. 112 lb drs. lb	.16	.16%
USP small cry. 112 lb drms. ....	.16	.16%
Prussiate, red, 100 lb bbls. ....	...	.90
500 lb casks ....	...	.85
Prussiate, yellow, 500 lb casks. ....	.38	.39
Salicylate, 25 lb cans. ....	.70	.72

## POTASSIUM—(Continued)

Sulfate, 200 lb bags, NY K <sub>2</sub> O unit	...	.95
USP, VIII, 100 lb kegs. ....	.18	.20
Sulfocyanide, CP 25 lb jars. ....	...	.70
Tartrate, neutral, 100 lb kegs. ....	...	.53
Titanium Oxalate, 200 lb bbls.		
freight allowed. ....	...	.35
Pumice Stone, lump, 250 lb bbls. ....	.04%	.06
Lump, bags ....	.03%	.05
Powdered, 350 lb bbls. ....	.02%	.03
Pyridine, 50 gal. drums. ....	gal	2.75 : 3.00
<b>QUICKSILVER, see Mercury</b>		
Quinidine Alk., 100oz tins. ....	.70	.75
Sulfate, 100oz tins. ....	...	.50
<b>QUININE SULFATE, USP,</b>		
American, 100oz tins. ....	...	.50
1oz tins, 100oz lots. ....	...	.57
Dutch, 100oz tins. ....	...	.50
Java, 100oz tins. ....	...	.50
Japanese, 100oz tins. ....	...	.49
<b>QUININE ALK., USP, 100oz tins. ....</b>	...	.67
Acetate ....	...	.88
Arsenate ....	...	.88
Benzonate ....	...	.88
Bisulfate, USP ....	...	.50
Citrate ....	...	.62
Dihydrate, USP ....	...	.66
Dihydrate, ....	...	.66
Dicarbonate, 10oz tins. ....	...	2.50
Ethyl Carbonate, 16 oz tins. ....	...	.95
Ferrocyanide ....	...	.88
Formate ....	...	.85
Glycerophosphate ....	...	.88
Hydriodide ....	...	.88
Hydrobromide, USP ....	...	.62
Hydrochloride, USP ....	...	.62
Hydrochlorosulfate ....	...	.66

## QUININE—(continued)

Hydchlide & Urea, USP. ....	...	.88
Hypophosphite ....	...	.83
Lactate ....	...	.78
Phenolsulfonate ....	...	.88
Phosphate ....	...	.74
Salicylate, USP ....	...	.63
Tannate, USP ....	...	.45
Tartrate ....	...	.88
Valerate ....	...	.89

Small Sizes: 1oz vials or cans,  
50oz lots, 5c on extra; 5oz cans,  
50oz lots 3c on extra; 25oz cans  
50oz lots, 3c on extra; single 1oz  
vials or cans, 5c extra. All minor  
quinine salts sold and quoted basis  
100oz lots in 100oz cans. Sulfate  
and bisulfate sold basis 100oz  
lots in 100oz cans. Smaller orders  
or containers extra as above  
schedule.

R SALT, 250 lb bbls. wks. ....	.55	.70
Red Lead, see lead oxide		
Red Precipitate, see mercury.		
Resorcin, see resorcinol.		
Resorcinol tech. 100 lb kegs. ....	1.50	1.55
USP, 25 lb cans ....	2.00	2.10
Rochelle Salt, USP, 225 lb bbls. ....	...	.21
Imp. USP, 300 lb bbls. ....	.19	.21
Rosewater, triple, 5gal. demis. ....	gal	1.15 : 1.25
Rotten Stone, lump imp., bbls. ....	.07	.03
Lump selected, bbls. ....	.09	.12
Powdered, bbls. ....	.02	.05
Domestic, bags, mines. ....	ton	24.00 : 30.00



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## Chemicals

<b>SACCHARIN, USP, 1 lb cans, 25 lb</b>			<b>Soap, Castile, 40 lb bxs.....lb</b>			<b>SODIUM ACETATE, crys 450 lb bbls</b>		
Soluble, USP, 1 lb cans, 25 lb..lb	1.90	: 2.00	Powd. USP, 250 lb bbls.....lb	.28	: .29	wks. ....lb	...	: .07½
Safrol, 80 lb cans.....lb	.55	: .60	Green, USP, 150 lb kegs.....lb	.07	: .07½	Ton lots, bbls. wks.....lb	...	: .07
Sal Ammoniac, see Ammon. Chloride			Soapstone, see Talc, crude			Imp. 500 lb casks.....lb	...	: .07
Salicin, USP, 1 lb cartons, 25 lb..lb	5.00	: 5.25	Prices on soda alkalies are based on actual percentages and not N. Y. & L. test.			Aluminum Sulfate, see alum soda.		
Salol, USP, 100 lb drums.....lb	.95	: 1.00	<b>SODA ASH, 58% light bgs NY</b>			Benzoate, USP, 250 lb bbls...lb	.65	: .70
Second Hands.....lb	...	: .90	flat, ex-warehouse ....100 lb	...	: 2.01	Bicarbonate, 400 lb bbls...100 lb	...	: 2.15
Salt, Common, see sodium chloride.			Contract, Basis 48% bags c/l	...	: 1.20	Bbls c/l wks.....100 lb	...	: 1.75
Salt Cake, c/l f.o.b. wks.....ton	28.00	: 30.00	wks .....100 lb	...	: 1.25	112 lb kegs.....100 lb	...	: 2.00
<b>SALTPETRE, Double Refined</b>			Prompt and spot, Basis 48% bags	1.25	: 1.30	112 lb kegs, NY.....100 lb	...	: 2.40
Granular, 400-500 lb bbls.,			c/l wks .....100 lb	...	: 1.30	Bichromate, 600 lb casks wks...lb	.07½	: .08
c/l wks.....lb	...	: .06½	<b>Soda Ash, 58% dense, bags ex-</b>			Casks, c/l wks.....lb	.07½	: .07½
Less c/l works, bbls.....lb	...	: .06½	warehouse, NY.....100 lb	...	: 2.07	Bisulfite, dry powder, 500 lb	...	: .04
Large Crystals, 350-400 lb bbls.,			Contract, Basis 48% bags c/l	...	: 1.25	bbls, wks .....lb	.04	: .04½
c/l wks.....lb	...	: .08	wks .....100 lb	...	: 1.25	Solution, 32-40°, 500 lb bbls	...	: 1.15
Small Crystals, 350-400 lb bbls.			Pmpt. and spot, Basis 48% bags	1.30	: 1.35	wks .....100 lb	1.15	: 1.80
c/l wks.....lb	...	: .07½	c/l wks .....100 lb	...	: 1.35	<b>Bromide, USP, Cryst 500 lb bbls</b>		
Powdered, bbls. c/l wks.....lb	...	: .08	<b>SODA, CAUSTIC, 76% solid, resale,</b>			lb	...	: .25
Imported, 500 lb bbls, NY.....lb	.06½	: .06½	NY flat .....100 lb	3.50	: 3.60	Cases, 100 lb .....lb	...	: .26
Santonin USP, 1 lb bot.....lb	175.00	: 177.00	76% solid drs. ex-warehouse	...	: 3.72	Imp. USP, 112 lb ca.....lb	.17	: .17½
Powd, 1 lb bot.....lb	176.50	: 178.50	NY .....100 lb	...	: 3.72	Cacodylate, USP, 5 lb bot.	25 lb	: 6.00
Saponin, ex Quillaja, 5 lb tin.....lb	1.25	: 1.56	Contract basis 60% c/l wks	...	: 2.50	25 lb .....lb	6.00	: 6.25
Schaeffer's Salt, 250 lb bbls.wks..lb	.60	: .65	100 lb	...	: 2.50	Carbonate, sal soda, 350 lb bbls	...	: 1.30
Scopolamine, see hyoscyne.			Pmpt and spot, Basis 60%	2.57½	: 2.60	lc/l wks .....100 lb	1.30	: 1.35
Selditz Mixture, 225 lb bbls....lb	.17	: .18	c/l wks .....100 lb	...	: 2.65	Ton lots, wks.....100 lb	...	: 1.25
<b>SILICA</b>			Contract 60% low grade c/l	...	: 2.65	USP monohyd, 100 lb keg..lb	...	: .05½
Crude, bulk, mines.....ton	10.00	: 12.00	wks flat .....100 lb	...	: 2.65	Pure photographic, 100 lb	...	: .08
Refined, floated, bags.....ton	18.00	: 30.00	Ground & flake, 76% pmpt and	...	: 3.72½	keg	.08	: .09
Air floated, bags .....ton	32.00	: 50.00	spot, wks c/l drs.....100 lb	...	: 3.65	Chlorate, 112 lb kegs, wks...lb	.06½	: .07
Extra, floated, bags.....ton	55.00	: 65.00	Contract, 76% drums, c/l wks	...	: 4.16	Imported, 112 lb kegs.....lb	...	: .06½
<b>SILVER, metal, American.....oz</b>			flat .....100 lb	...	: 3.65	Chloride, tech 200 lb bags.ton	12.00	: 15.00
Foreign.....oz	...	: .63	76% drs. ex-warehouse NY100 lb	...	: 3.65	C. P. 300 lb bbls.....lb	.03	: .06
Colloidal, 16oz bot.....oz	...	: 1.60	USP, stick, 10 lb cans.....lb	.19	: .21	Citrate, USP, IX, 100 lb kegs..lb	...	: .82
Nitrate, USP, 200oz bot.....oz	.44	: .44½	Pure, stick, by alcohol.....lb	.25	: .27	USP, VIII, 100 lb kegs..lb	...	: .55
Nucleinate, 16oz bot.....oz	.32	: .37				Cyanide, 96-98%, 100 lb cases	...	: .23
Proteinate, 16oz bot.....oz	.34	: .39				wks. ....lb	...	: .23
						Ton lots, wks.....lb	...	: .23
						73-76%, 100 lb cases, wks..lb	...	: .20½
						Imp. 128%, 200 lb cases..lb	.22	: .23
						120%, cases.....lb	.20	: .21
						Fluoride, 350 lb bbls. NY imp..lb	.09½	: .09½



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PITTSBURGH,

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## Chemicals

## SODIUM—(Continued)

Glycerophos, USP, crys 25 lb		
cans	1.70	1.75
Powder, 25 lb tins	1.75	1.80
Solution, USP 25 lb tins	1.00	1.05
Hydrosulfite, 200 lb bbls, fob, wks. lb	.19	.22
Hydroxide, see Soda Caustic		
Hypophosphite, USP, 25 lb cans		.75
lb		
HYPOSULFITE, tech. pea crys.,		
375 lb bbls. wks. 100 lb	3.50	3.75
Bbls. c/l wks. 100 lb		3.25
100 lb kegs wks. 100 lb	3.75	4.00
Granulated, bbls. wks. 100 lb	3.75	3.90
Bbls. c/l wks. 100 lb		3.75
Kegs wks. 100 lb	4.20	4.50
Regular crystals 100 lb	2.75	3.00
Iodide, USP, 25 lb jars		4.00
Metanilate, 150 lb bbls	.80	.82
Naphthionate, 300 lb bbls		.56
Nitrate, crude, 95%, 200 lb bgs		
c/l NY		2.60
Futures, NY		2.62½
Double Refined, 400 lb bbls		
wks	.04½	.04½
Nitrite, 500 lb bbls wks	.09	.09½
Bbls. spot, makers		.09½
Imp. 650 lb casks	.08½	.08½
Ortho-Chloro-para-Toluene Sul-		
fonate, 175 lb bbls wks. lb	.25	.27
Oxalate, neutral, 100 lb kegs. lb		.47
Perborate, 275 lb bbls		.24
Imp., 225 lb drs	.18	.19
Peroxide, 200 lb cases	.25	.27
Phosphate, di-sodium, tech 550 lb		
bbls	.03½	.03½
USP, gran. 275 bbls	.07	.07½
Imp. gran.	.05½	.06
USP, recryst 275 bbls	.10	.11
Mono-sodium 100 lb kegs. lb	.25	.27
Tri-sodium tech. 550 lb bbls. lb	.04½	.05½
Pieramate, 100 lb kegs		.60

## SODIUM—(Continued)

Para-Toluene Sulfonate, 175 lb		
bbls	.08	.09
PRUSSATE, yellow, 450 lb cks. lb	.19	.19½
Pyrophosphate, 100 lb kegs	.18	.22
Salicylate, 100 lb kegs	.52	.54
Second Hands, USP, kegs. lb	.45	.47
Silicate, 60° 700 lb bbls. f.a.s.		
NY		2.00
Works, 1000 lb drums		1.90
Works, tanks		1.75
40° domestic, 700 lb c/l f.a.b.		
wks. 1000 lb drums		.80
Works, 1000 lb drums		.82½
Works, tanks		.75
Spot, drums, bbls	1.25	1.50
Silicofluoride, 450 lb bbls NY. lb	.07½	.08
Sulphate, see Glauber's Salt.		
Sulfide, 60% solid, 650 lb drs		
1c/l wks.	.05	.05½
Drs. c/l wks.		.04½
Imp, 700 lb drs NY		.04
60% broken, 650 lb drs wks. lb	.05½	.05½
Imp, 500 lb drs NY		.04½
30% crys. 400 lb bbls wks. lb	.02½	.03
Imp., 400 lb bbls		.02½
Sulfite, crys, 400 lb bbls wks. lb	.03½	.03½
Dessicated, 400 lb bbls	.09½	.10
Sulfocarbonate, USP, 100 lb		
kegs	.36	.38
Sulfocyanide, 400 lb bbls	.43	.47
Tungstate, crys 100 lb kegs. lb		.55
Dessicated, kegs		.65
Solvent Naptha, see Naphtha.		
Spartein Sulfate, USP, 250x bulk. oz	.60	.70
Single oz. vial.		.60
Starch, rice, 140 lb bags	.09	.10

## STRONTIUM Bromide, USP, 100 lb

kegs		.33
Carb. 600 lb bbls, wks.		.07
100 lb kegs wks.		.08
Iodide, USP, 25 lb jars		3.90
Nitrate, 600 lb bbls. wks.	.11	.11½
Imp., bbls. NY	.08½	.10
Salicylate, USP, 100 lb kegs. lb		.65
STRYCHNINE Alkaloid, USP, crys		
100w tins		1.15
Alk. powd, USP		1.05
Acetate		1.05
Glycerophosphate, USP		1.05
Hydrobromide		1.05
Hydrochloride		1.05
Hypophosphite		1.15
Nitrate, USP		1.05
Phosphate		1.05
Sulfate, USP, crys powd.		.84
Saccharinate		2.15
Strychnine preparations quoted bases		
100oz lots in 100oz tins. Small Sizes;		
¼ oz vials, 50c extra; ¼ oz vials, 25c		
extra: single ounce vials, 7c extra. Lots		
of 25 ozs. 5c higher than above		
schedule. Lots of less than 25 ozs.		
10c higher per oz.		
Sugar Milk, USP, 200 lb bbls	.21	.22
Second Hands, USP, bbls	.22	.23
Sulfonal, see Sulfonmethane.		
Sulfonmethane, USP, 5 lb bxs		4.25
Sulfonethylmethane USP, bxs. 5 lb		5.25
SULFUR, crude, bulk, c/l NY. ton		18.00
Crude, f.o.b. plant	14.00	15.00
Brimstone, 250 lb bgs, c/l 100 lb	1.75	1.95
Less c/l bags NY	1.85	2.10
Woll, 500 lb bbls c/l NY. 100 lb		2.15
Less c/l bags NY	2.20	2.45
Flour, Heavy, 290 lb bbls, 100 lb	2.50	3.05
Light, 100%, 260 lb bbls, 100 lb	2.60	3.15
Rubbermakers 100%, 240 lb		
bbls, NY	2.60	3.15



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## Chemicals

## SULFUR—(continued)

Commercial, 99%, 150 lb bgs		
NY .....	1.35	1.65
For Dusting, 99%, 100 lb bgs NY .....	2.00	2.50
Flowers, 100%, 240 lb bbls NY .....	3.00	3.55
Precipitated, 125 lb bbls NY .....	.14	.16
Lac, 125 lb bbls NY .....	.07	.10
Sulfur Chloride, red, 700 lb drs wks .....		.05%
150 lb clys wks .....		.08
Yellow, 700 lb clys wks .....		.05
150 lb clys wks .....		.05%
Sulfur Dioxide, 100 lb cyl .....	.08	.08%
Sulfuric Ether, see Ether.		
Sulfuryl Chloride, 600 lb drs .....		.70
TALC, Italian, 220 lb bags NY .....	35.00	40.00
Refined, white, bags .....	42.00	55.00
French, 220 lb bags NY .....	25.00	30.00
Refined, white, bags .....	32.00	45.00
Dom, crude, 100 lb bags NY .....	15.00	18.00
Refined, 100 lb bags NY .....	20.00	30.00
Tartar Emetic, tech. 700 lb bbls .....	.27	.27%
USP, 300 lb bbls .....	.34%	.35%
Terpin Hydrate, USP, 100 lb kegs .....	.73	.75
Terpinol, CP 1000 lb drums .....	.50	.60
Cans, 50 lb .....	.55	.60
Imported, cans, 25 lb .....	.70	.75
Terpenyl Acetate, 25 lb cans .....	1.75	2.00
Terra Alba, No. 1, 300 lb bbls .....	1.85	1.90
No. 2, bbls .....	1.25	1.35
Theobromine Alk., 5 lb cans .....		8.00
and Sod. Salicylate, 1 lb bot. .....		4.00
Thiocarbamid, 170 lb bbls .....	.35	.37
Thymol, USP, 10 lb cans .....	3.80	4.00
Iodide, 5 lb boxes .....	6.75	7.00
TIN, Metal Straths, NY .....		40.15
American standard, NY .....		39.75
99% American, NY .....		39.50
C.P. mossy, 25 lb bxs NY .....		

## Tin—(continued)

Bichloride, 50% soln 100 lb bbls wks .....	.10%	.10%
Crystals, 500 lb bbls wks .....		.32%
100 lb kegs, wks .....		.33
Oxide, 400 lb bbls wks .....		.43
100 lb kegs wks .....		.44
Tetrachloride, 1000 lb drs wks .....	.21%	.23
Tolidine, 350 lb bbls .....	.95	.97
Sulfate, 350 lb bbls .....		1.00
Toluene, 8000 gal tank cars, wks gal .....		.30
110 gal drs wks .....		.35
Toluidine, Mixed, 900 lb drs wks .....	.30	.33
Tribromophenol, 100 lb cases .....		1.00
Trional, see Sulfonethylmethane.		
Triphenyl Phosphate, 450 lb bbls .....		.45
Tripoli, 500 lb bbls .....	2.50	3.00
Tungsten NY .....	WO <sub>2</sub> unit	7.00 : 8.00
UREA, pharm 112 lb cases .....		.40
VANILLIN, USP, 4000 cans .....	.43	.45
Cans, 80 cans .....		.45
Cans, 160 cans .....		.46
Vermilion, Amer. 100 lb kegs .....		.35
English, kegs .....		1.30
Veratrine Sulfate, 100 vial .....		2.50
Hydrochloride, 100 vial .....		2.50
WHITE LEAD, see lead, white.		
White Precipitate, see mercury.		
Whiting, 200 lb bags, c/l wks ton .....		18.00
Bags, 1 c/l wks .....		20.00
Gilders, bags .....	13.50	15.00
French, bags, NY .....		18.00
English, bags, NY .....		23.00
Witch Hazel Extract, 50 gal bbls gal .....	1.20	1.25

## XYLENE, 2° dist range, nitration

thn. wks. ....		
110 gal. drs. wks. ....		
5° dist. range, 8000 gal tanks wks. ....		
110 gal. drs. wks. ....		
Xylidine, 900 lb drs. ....	.42	.43
YARA YARA, 1 lb tins. ....	2.00	2.50
Yohimbin Hydrochloride, 1 oz. vial. ....		11.50
ZINC, METAL, high grade, slabs c/l NY .....		8.25
Common Slabs, c/l NY .....	7.35	7.40
Mossy, 25 lb bxs NY .....		.15
Ammonium Chloride, soln, 400 lb bbls .....		
Carb. tech. 150 lb kegs NY .....	.14	.16
USP, 100 lb kegs .....		.30
Chloride, fused, 600 lb drs wks .....		.07
Drs. c/l wks. ....		.05%
Imp. drs NY .....		.06
Granulated, 500 lb bbls wks .....		.08
Imported, drs. NY .....		.06%
USP, 25 lb jars .....		.30
Cyanide, 100 lb drs .....	.42	.43
Dust, 100 lb tins wks .....	.09	.11
500 lb bbls, kegs, c/l wks .....	.09%	.09%
500 lb bbls, kegs, c/l wks .....	.08%	.09
Iodide, 5 lb bottles .....		5.00
Nitrate, 25 lb jars .....		.35
Oxide, Amer. 300 lb bbls wks .....	.07%	.08
Bbls c/l wks. ....		.07%
French, 300 lb bbls wks .....	.09%	.11%
Bbl c/l wks .....	.09	.09%
Bags, c/l wks .....	.08%	.09
Imported, white seal, bbls .....		.12%
Green seal, bbls. ....		.10
USP, 100 lb bbls .....	.15	.17
Stearate, USP, 60 lb bbls .....	.19%	.21
Sulfate, 400 lb bbls wks .....	.03%	.03%
Bbls c/l wks. ....		.02%
USP, 100 lb kegs .....	.08	.09
Sulfocarbonate, 100 lb kegs .....	.35	.37

# NITRATE SODA

DOUBLE REFINED CRYSTALS  
GRANULATED OR POWDERED



**BATTELLE & RENWICK**

Estb. 1840

Incp. 1902

80 Maiden Lane, New York, N. Y.



**Super-Filtchar**  
(Decolorizing and Deodorizing Carbon)

**FULLERS EARTH  
CHARCOAL**

**Alcohol**

(Ethyl and Denatured)

**PRECIPITATED CHALK  
WHITING**

**INDUSTRIAL CHEMICAL CO.**

200 Fifth Avenue, New York City

Tel: Gramercy 3242

# Oils and Fertilizers

## Oils

Castor, No. 1, 400 lb bbls.	..	..	13
80 lb cases	..	..	14
No. 3, bbls.	..	12 1/2	14 1/2
Blown, 400 lb bbls.	..	..	14 1/2
China Wood, bbls, spot NY.	..	17	17 1/2
8000 gal. tks. NY.	..	..	..
Feb. forward, tanks, NY.	..	..	15
Mar.-Apr. forward, tanks, NY.	..	..	15
Coast, tanks, Apr. forward.	..	..	14
Cocunut Ceylon, 375 lb bbls. NY.	..	09 1/2	09 1/2
8000 gal. tanks, NY.	..	08 1/2	09
Cochin, 375 lb bbls, NY.	..	10 1/2	10 1/2
Tanks, NY.	..	..	10 1/2
Manila, tanks, Coast.	..	07 1/2	08
Edible, bbls. NY.	..	10 1/2	11
Cod Newfoundland 50 gal. bbls. gal	..	64	65
Tanks, NY.	..	62	63
Copra, bags	..	05	05 1/2
Corn, ref. 375 lb bbls. NY.	..	09 1/2	10
Crude, tanks mills.	..	10 1/2	11
Bbls. NY.	..	..	10 1/2
COTTONSEED, crude tks. mills.	..	..	10
P. S. Y. 100 bbl. lots NY.	..	11	11 1/2
White, 100 bbl. lots NY.	..	12 1/2	13 1/2
Winter yellow, 100 bbls. NY.	..	12 1/2	13 1/2
Degras, Amer. 50 gal. bbls. NY.	..	..	04 1/2
English, bbls. NY.	..	04 1/2	05
Neutral, bbls. NY.	..	09	11
Grease, choice white bbls. NY.	..	10 1/2	10 1/2
Yellow	..	08 1/2	08 1/2
Brown	..	..	08
House	..	08 1/2	08 1/2
Bone naphtha	..	07 1/2	07 1/2
Herring, Tanks, Coast.	..	..	..
Horse, 375 lb bbls. NY.	..	..	..
Lard, prime steam bbls.	..	13 1/2	13 1/2
Compound, bbls.	..	13	13
LARD OIL, Edible prime, bbls.	..	15 1/2	15 1/2
Off prime, bbls.	..	14	14
Extra, bbls.	..	13 1/2	13 1/2
Extra No. 1, bbls.	..	13 1/2	13 1/2
No. 1 bbls.	..	13	13
No. 2 bbls.	..	12 1/2	12 1/2

LINSEED, raw c/l bbls spot.	gal	..	90
Five bbls, raw	gal	..	93
Bolled, 5 bbl. lots.	gal	..	95
Double bolled 5 bbl. lots.	gal	..	96
Raw, Feb. c/l bbls.	gal	..	90
Mar.-Apr. c/l bbls.	gal	..	90
Imported, bbls, NY.	gal	..	85
Imp. shipment, duty paid bbls. gal	..	..	82
Menhaden, crude, bbls, wks.	gal	..	53
Crude, tanks wks Balt.	gal	..	51
Light strained, tanks.	gal	..	67
Light strained, bbls, NY.	gal	..	69
Yellow bleached, bbls, NY.	gal	..	72
Blown, bbls, NY.	gal	..	80
Neatsfoot, 20° c.t. bbls. NY.	lb	18 1/2	20
30° cold test, bbls, NY.	lb	15 1/2	15 1/2
Prime, bbls, NY.	lb	..	13 1/2
Oilc Oil, No. 1, bbls NY.	lb	13 1/2	14
No. 2, bbls, NY.	lb	11	11 1/2
No. 3, bbls, NY.	lb	09 1/2	09 1/2
OLIVE, denatured bbls, NY.	gal	1.05	1.10
Edible, bbls, NY.	gal	1.80	2.20
Foots, bbls, NY.	lb	09 1/2	09 1/2
Shipment, duty paid.	lb	08 1/2	08 1/2
Palm Lagos, 1500 lb casks.	lb	08	08 1/2
Niger, casks	..	..	..
Benny old Calabar, casks.	lb	07 1/2	07 1/2
Palm Kernel, 1500 lb casks NY.	lb	09 1/2	09 1/2
Peanut, refined bbls, NY.	lb	16 1/2	17 1/2
Crude, mills buyers' tks.	lb	13	13 1/2
Crude, bbls, NY.	lb	14 1/2	14 1/2
Perilla, bbls, NY.	lb	..	17
Shipment, c.l.f. NY tks.	lb	13 1/2	14
Shipment, c.l.f. NY tks.	lb	13 1/2	14
Poppyseed, bbls, NY.	gal	..	2.50
Rapeseed, refined bbls, NY.	gal	85	86
Blown, bbls, NY.	gal	95	98
Red Oil, distilled, bbls.	lb	11 1/2	12
Saponified, bbls.	lb	11 1/2	12
Salmon, 8000 gal. tks. Coast.	..	..	..
Sesame, domestic edible bbls.	gal	..	2.50
Sod Oil, bbls, NY.	gal	..	45

SOYA BEAN, crude tks. Coast.	lb	09	09 1/2
Crude, bulk c.l.f. NY in bond.	lb	07 1/2	07 1/2
Crude, bulk c.l.f. PC in bond.	lb	07	07 1/2
Crude, bbls, NY.	lb	11 1/2	12
Refined, bbls, NY.	lb	..	12 1/2
Amer. pressed, crd. bbls, NY.	lb	11	11 1/2
Sperm, 38° c. t. blechd. bbls, NY.	gal	..	1.09
45° cold test, blechd. bbls, NY.	gal	..	1.04
TEARIC ACID, s. p. 200 lb bags.	lb	..	13 1/2
Double pressed, bgs.	lb	13	13 1/2
Double pressed, bgs, saponified.	lb	13	13 1/2
Triple pressed, bgs., distilled.	lb	14 1/2	15
Triple pressed, bgs., saponified.	lb	14 1/2	15
Stearine, oleo, bbls.	lb	10 1/2	10 1/2
Lard, bbls.	lb	..	12 1/2
Tallow, edible, therom.	lb	..	10 1/2
City extra, loose.	lb	..	08 1/2
Tallow Oil, acidless tks, NY.	lb	..	11 1/2
Bbls, c/l NY.	lb	..	12 1/2
Teaseed, crude bbls, NY.	lb	12 1/2	12 1/2
Walnut, crude bbls, NY.	lb	12 1/2	12 1/2
Whale, nat. winter bbls, NY.	gal	..	73
Blechd. winter bbls, NY.	gal	74	77
Crude, No. 1, tanks Coast.	lb	..	..
Crude, No. 2, tanks Coast.	lb	..	06 1/2
Crude No. 3, tanks Coast.	lb	..	..

## Fertilizer Materials

Ammon. Sulf. bulk wks.	100 lb	..	3.20
Double bgs. f.a.s. NY.	100 lb	..	3.55
Blood, dried f.o.b. NY.	unit	..	4.70
Bone, 3 & 50 ground raw.	ton	..	82.00
Raw, Chicago	ton	..	28.00
Cyanamide wks.	unit	..	2.25
Fish Scrap, dried wks.	unit	..	..
NITRATE SODA, NY.	100 lb	2.80	2.62 1/2
Phosphate Rock, f.o.b. mines,	..	..	..
Florida pebble, 68-78%	ton	3.00	5.50
Tennessee, 70-75%	ton	3.00	3.25
Phosphate Acid, 16% wks.	ton	..	10.00
Potassium Murate, 80%	unit	..	70
Sulfate	unit	..	95
Steamed Bone Meal, NY.	ton	..	35.00
Tankage, ground NY.	unit	4.75	4.10
High grade, f.o.b. Chicago.	unit	4.75	4.10

## CHROME GREEN B



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Manufacturers of Aniline Colors  
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The Grasselli Chemical Co., Sole Sales Agts., 117 Hudson St., N. Y.

## Cresylic Acid 97/99% Pale

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Bicarbonate of Soda  
Sal Soda  
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NEW YORK CITY

**NAPHTHALENE**

FLAKES BALLS

**BARIUM NITRATE**

PERMANGANATE OF POTASH

CARBON TETRACHLORIDE

TRUTH VALUE

## Tannins and Dyestuffs

## Naval Stores

(Carloads ex-yard N. Y.)

Spirits Turpentine, bbls.....gal	1.50
Wood Turpentine, stn. distd. bbls.gal	1.42
Destructive distilled, bbls.....gal	1.22
Pitch, prime.....bbl	6.00
Rosins. (Sold in 600 lb bbls, gross for net, quotations based on a unit of 280 lb)	
B.....280 lb	6.15
D.....280 lb	6.25
E.....280 lb	6.25
F.....280 lb	6.25
G.....280 lb	6.25
H.....280 lb	6.25
I.....280 lb	6.25
K.....280 lb	6.30
M.....280 lb	6.75
N.....280 lb	7.10
WG.....280 lb	7.50
WW.....280 lb	8.00
Rosin Oil, first run, 50 gal. bbls.gal	.45
Second run, bbls.....gal	.47
Tar, kiln-burnt.....bbl	12.50
Retort.....bbl	12.00

## Woods

Barwood, chips.....lb	.04½ : .05
Camwood, chips.....lb	.09 : .13
Diri Divi, pods 100-200 lb bags.ton	32.00 : 34.00
Fustic, sticks.....ton	35.00 : 37.00
Chips.....lb	.04 : .06
Hemlock, bark.....ton	16.00 : 18.00
Hyperic, chips.....lb	.06½ : .07
LOGWOOD, sticks.....ton	30.00
Chips 150 lb bags.....lb	.02½ : .03
Mangrove bark, African.....ton	35.00
Bark, South American.....ton	35.00 : 30.00

Myrabolans, 150 lb bags J1.....ton	28.00
B1.....ton	24.00
B2.....ton	17.00
Nutgalls, see Crude Drugs.	
Oak bark, whole.....ton	20.00 : 23.00
Ground.....ton	25.00
Quercitron bark, rough.....ton	10.00
Ground.....ton	20.00 : 25.00
Sumac, Sicily, 100 lb bags.....ton	57.00 : 60.00
Virginia, 150 lb bags.....ton	35.00
Valonia Cups, 28-33% tan.....ton	31.00 : 33.00
Beard, 40% tan, 150 lb bags.ton	48.00 : 50.00
Wattle bark, 150 lb bags.....ton	38.00 : 40.00

## Extracts

Range of prices includes quality range for large quantity.

Annatto, fine.....lb	.26 : .29
Archil, double 600 lb bbls.....lb	.16 : .18
Triple, 600 lb bbls.....lb	.17 : .19
Conc., 600 lb bbls.....lb	.18 : .20
Chestnut, clarified, 25% tks. wks.ton	2.00 : 2.25
Powd., 60% 100 lb bla. wks.....lb	.05½ : .05½
Decolorized, bbls. wks.....lb	.09 : .09½
Cudbear, English.....lb	.21 : .23
Cutch, Rangoon, 100 lb bales.....lb	.13 : .16
Borneo, solid, 100 lb bales.....lb	.04½ : .05½
Liquid, 450 lb bbls.....lb	.10 : .11
Tablets, 120 lb boxes.....lb	.13 : .14
Flavine.....lb	.90 : .95
Fustic, solid 50 lb boxes.....lb	.14 : .18
Crystals, 100 lb boxes.....lb	.22 : .24
Liquid, 51°, 600 lb bbls.....lb	.10 : .14
Gal extract.....lb	.16 : .18
Gambier, 25% liq. 450 lb bbls.....lb	.06½ : .07
Common, 200 lb cases.....lb	.05½ : .05½
Singapore cubes, 150 lb bags.....lb	.07 : .07½
HEMATINE, Paste, 500 lb bbls.....lb	.11½ : .13½
Crystals, 400 lb bbls.....lb	.16 : .20
Hemlock, 25% 600 lb bbls. wks.....lb	.03½ : .03½
Hyperic, 51°, 600 lb bbls.....lb	.15 : .20
Indigo, Madras bbls.....lb	.85 : .90
Manila, bbls.....lb	1.30

Larch, 25%, 600 lb bbls, wks.....lb	.03½ : .03½
Powd. 100 lb bags, wks.....lb	.07½ : .08
Logwood, 51°, 450 lb bbls.....lb	.07½ : .12½
Solid, 50 lb boxes.....lb	.15 : .21
Madder, Dutch.....lb	.28 : .30
Mangrove, 55% 400 lb bbls.....lb	.05½ : .05½
Myrabolans, 25% liquid bbls.....lb	.04 : .05
50% solid, 50 lb boxes.....lb	.04½ : .05
Oak, tanks wks.....lb	.04½ : .04½
23-25% liq. 600 lb bbls. wks.....lb	.05 : .05½
Osage Orange, 50° liquid.....lb	.07 : .08
Powd. 100 lb bags.....lb	.15 : .16
Persian Berries.....lb	.27 : .30
QUEBRACHO, 35% liquid lbs.....lb	.03½ : .04
450 lb bbls.....lb	.04½ : .04½
35% bleaching, 450 lb bbls.....lb	.04½ : .05½
Solid 65% 100 lb bales.....lb	.04½ : .05
Clarified bales.....lb	.05½ : .05½
Quercitron, 51° 450 lb bbls.....lb	.06 : .07
Powdered, 100 lb boxes.....lb	.09 : .13
Spruce, 25% liquid tanks wks.....lb	.01 : .01½
Powd. 50% 100 lb bags wks.....lb	.02 : .02½
Sumac, liquid 450 lb bbls.....lb	.07 : .08

## DYERS' SUNDRIES

Albumen, technical, egg 200 lb cs. lb	.80
Blood, domestic, 100 lb drs. lb	.33
British Gum, 140 lb bags c/l 100 lb	3.39
Bags lc/l.....100 lb	3.67
Dextrin, corn 140 lb bags c/l 100 lb	3.09
Bags lc/l.....100 lb	3.37
Potato 140 lb bags c/l.....100 lb	.09½ : .09½
Bags lc/l.....100 lb	.60 : .62
Prussian blue.....lb	.03½ : .03½
Sago Flour, 150 lb cs.....lb	.35 : .45
Spray Yolk 150 lb cs.....lb	.35 : .45
STARCH, powd. 140 lb bgs.c/l100 lb	2.47
Bags lc/l.....100 lb	2.75
Pearl, 140 lb bags c/l.....100 lb	2.37 : 2.65
Potato, domestic, 140 lb bags.....lb	.05½ : .05½
Imported, bags duty paid.....lb	.06½ : .07½
Tapioca Flour, high grade bags.....lb	.05 : .05½
Medium grade, bags.....lb	.03½ : .04
Low grade, bags.....lb	.03 : .03½
Turkey Red Oil, bbls.....lb	.09 : .11
Yolk Oil, bbls.....lb	.35

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NEW BRUNSWICK CHEMICAL CO.

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Oils  Waxes  
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TERPOL HYDRATE

For Penetration, Thin Boiling  
Smoothness and Elasticity on  
Cotton Warps and Yarns

WHERE STARCH IS USED  
Write for Information



25 BROAD STREET  
NEW YORK CITY



## Crude Drugs

## Crude Drugs

Accroides Gum, yel., ..... lb	.18	.20	BALSAMS			Cantharides, Chinese cases..... lb	1.10	1.15
ACONITE Leaves, bales..... lb	.16	.17	Copaiba, Para, 80 lb cs..... lb	.23	.25	Powd., boxes..... lb	1.25	1.35
Aconite Root, USP, bags..... lb	.35	.40	South American, 80 lb cs..... lb	.28	.29	Cantharides, Russian, cases..... lb	2.00	2.10
Agar Agar, 1, 200 lb bales..... lb	1.60	1.65	Fir Canada, cans..... gal	...	11.00	Powdered, boxes..... lb	2.25	2.30
No. 2, bales..... lb	...	...	Oregon, bbls., cans..... gal	...	2.25			
No. 3, bales..... lb	1.45	1.50	Peru, 120 lb cases..... lb	2.10	2.25	Caraway Seed, African bags..... lb	...	...
Agaric, white, cases..... lb	...	...	Tolu, 90 lb cases..... lb	.75	.80	Dutch, 110 lb bags..... lb	.29	.29 1/2
Almonds, bitter bags bxs..... lb	.32	.35	Bamboo Brier Root, bags..... lb	.06	.07	Cardamom bleached cases..... lb	.90	1.15
Sweet, bags..... lb	.45	.46	Barberry Bark, tree bales..... lb	.22	.24	Decorticated, cases..... lb	...	.75
Meal, tins, boxes..... lb	.28	.30	Bayberry Bark, bales..... lb	.10	.12	Green, grinding, bags..... lb	.75	.77
Aletris Root, bags..... lb	.60	.62	Wax, bbls..... lb	.28	.30	Carnauba Wax, Flor. bags..... lb	.45	.48
Alkanet Root, bags..... lb	.08	.10	Belladonna Leaves, bales..... lb	.17	.18	No. 1 N Country bags..... lb	.40	.43
Aloes, Barbadoes, 120 lb bbls..... lb	.70	.75	Root, bags..... lb	.13	.14	No. 2 N Country bags..... lb	.23	.25
Cape, 400 lb cases..... lb	.07	.07 1/2	Bees Wax, white bbls..... lb	.36	.37	No. 3 Fatty Gray, bags..... lb	.20	.21
Curacao, 100 lb cases..... lb	.06	.06 1/2	Yellow, refined bbls..... lb	.23	.26	No. 3 Chalky, bags..... lb	.16 1/2	.17
Socotrine, whole 100 lb cs..... lb	.30	.32	Crude, bags..... lb	.20	.22	Cascara Amara, 150 lb bales..... lb	.30	.32
Althea Root, cut cases..... lb	.13	.14	Benzoin Gum, Siam, boxes..... lb	1.00	1.10	Cascara Sagrada, bales..... lb	.13 1/2	.14
Whole bags..... lb	.09	.10	Sumatra, 80 lb boxes..... lb	.35	.40	Cascarilla Bark, quills bales..... lb	.30	.35
Ambergris, black boxes..... oz	...	8.00	Berberis Aquifolium Root, bags..... lb	.16	.17	Siftings, bbls..... lb	.20	.25
Grey, boxes..... oz	...	28.00	Beth Root, bags..... lb	.18	.20	Cassia Buds, 66 lb cases..... lb	.13	.14
Ammoniac, tears, bags..... lb	1.35	1.40	Blackhaw Bark, root, bales..... lb	.38	.43	China, select, mats cases..... lb	.06	.08
Angelica Root, dom. bags..... lb	.14	.15	Tree, bales..... lb	.22	.23	Saloon, assort. bales..... lb	.24	.26
Angostura Bark, bags..... lb	.14	.15	Blood Root, bags..... lb	.13	.15	Cassia Fistula, baskets..... lb	.10	.11
Anise, Levant bags..... lb	.17	.17 1/2	Blueflag Root, bags..... lb	.23	.25	Castor Beans, bags..... lb	...	...
Star, cases..... lb	.14 1/2	.15	Boneset Herb, bales..... lb	.08	.10	Castoreum, 1 lb bot..... lb	4.00	4.50
Spanish, bags..... lb	.25	.27	Borage Flowers, bales..... lb	.28	.30	Catechu Gum, bags..... lb	.09	.10
Anatto Seed, bags..... lb	.05	.05 1/2	Bryonia Root, bags..... lb	.10	.11	Catnip Herb, bales..... lb	.12	.15
ARABIC GUM, 200 lb cases..... lb	.26	.27	BUCHU LEAVES, short, 250 lb bales..... lb	...	1.10	Celery Seed, 220 lb bags..... lb	...	.24
Seconds, 250 lb bags..... lb	.22	.24	Less, bales..... lb	1.12	1.15	Ceresin Wax, white bags..... lb	.08 1/2	.09
Sorts, amber, 200 lb bags, bbls..... lb	.22	.23	Long, bales..... lb	...	...	Yellow, 200 lb bags..... lb	.07 1/2	.08
Powd., USP, 300 lb bbls..... lb	.24	.25	Buckhorn Bark, bales..... lb	.07	.08			
Arca Nuts, 150 lb bags..... lb	...	.09	Burdock Root, bags..... lb	...	.27	CHAMOMILE FLOWERS, Roman bales..... lb	1.20	1.25
Powd., 200 lb bbls..... lb	...	.12	Burgundy Pitch, dom 110 lb stands..... lb	...	...	Hung. cases bales..... lb	.18	.19
Arnica Flowers, bales..... lb	.12	.13	Gross for net..... lb	...	.05	Charcoal Willow, powd. bbls..... lb	.06	.06 1/2
Root, bags..... lb	.20	.22	Calabar Beans, bags..... lb	.13	.14	Wood, powd. bbls..... lb	.04	.05
Arrowroot, Amer. powd. bbls..... lb	.05 1/2	.06	Calamus Root, bleached cases..... lb	.40	.45	Chestnut Bark, bags..... lb	.07	.08
St. Vincent, powd. bbls..... lb	.10 1/2	.11	Unbleached, bags..... lb	.07	.08	Herb, bales..... lb	.06	.06 1/2
Asafetida, USP, 250 lb cases..... lb	.32	.35	Calendula Petals, imp. bales..... lb	...	.30	Chicle Gum, bags..... lb	.80	1.00
Powd., 50 lb bxs..... lb	.55	.60	Calisaya Bark, bales..... lb	.14	.16	Chiretta, bales..... lb	.13	.14
BALM GILEAD BUDS, bags..... lb	.47	.48	Campor, see Chemicals..... lb	.06	.06 1/2	Cinchona Bark, red quills bales..... lb	.50	.55
Balmory Herb, bales..... lb	...	.14	Canary Seed, Morocco bags..... lb	.04 1/2	.04 3/4	Broken, bales..... lb	.14	.15
			South American, bags..... lb	...	.35	Cinnamon, Ceylon, bales, bond..... lb	.20	.22
			Candella Wax, bags..... lb	.45	.47	Civet, Abyssin horns..... oz	2.75	2.85
			Canella Alba Bark, bales..... lb	...	5.75	Clover Tops, bags..... lb	.09	.10
			Cannabis, true imp. bags..... lb	.75	.90	Cloves, Zanzibar, 135 lb bales..... lb	.24	.25
			American (no assay) bales..... lb	1.00	2.00	Amboyas, bales..... lb	...	...
						Penang, bales..... lb	...	...

## Podophyllin

U.S.P.

Synthetic Chemicals

Alkaloids

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Cochineal, USP boxes.....D	.40	: .45	Dogwood Bark, Jamaica bags....D	.10	: .11	Grindelia Robusta Herb, bales...D	.09	: .10
Coca leaves, Huancayo bags....D	...	...	Flowers, bales.....D	...	: .15	Guaiac Gum, 80 lb cases.....D	.48	: .50
Truxillo, bags.....D	.40	: .45	Doggrass Root, USP, cut bags....D	.12	: .14	Guarana, tins, cases.....D	.70	: .80
Cobosh Root, Black bags.....D	.08	: .08½	Dragons Blood, mass cases.....D	.60	: .62	GUM, see Arabic Gum, etc.		
Blue, bags.....D	.09	: .09½	Reels, boxes.....D	...	: 1.50	<b>HELLEBORE ROOT.</b>		
Colchicum Root, bags.....D	.08	: .09	<b>ECHINACEA ROOT, bags.....D</b>	.33	: .34	Black, pwd. bbls.....D	...	: .14
Seed, bags.....D	.11	: .12	Elecampane Root, bags.....D	.09	: .10	White, bags.....D	.12	: .14
Colombo Root, whole bags.....D	.02	: .04	Elder Flowers, bales.....D	.20	: .22	Powdered, 250 lb bbls.....D	.16	: .17
Colocynth, apples, cases, bales...D	.15	: .20	Elemi Gum, 89 lb cases.....D	.10	: .11	Helonias Root, (unicorn false)		
Pulp, USP, bales.....D	.45	: .48	Elm, select, 5 lb bundles cases..D	.26	: .27	bags.....D	...	: .68
Coltsfoot Leaves, bags.....D	.06	: .07	Grinding, bags.....D	.10	: .12	Hemp Seed, Manchurian bags...D	.03½	: .04
Comfrey Root, bags.....D	.13	: .14	Powdered, bbls.....D	.14	: .15	Chilian, bags.....D	...	: ....
Condurango Bark, bales.....D	.07½	: .08	<b>ERGOT, 150-200 lb bags.....D</b>	.60	: .65	Henbane Leaves, bales.....D	.48	: .58
Contum Seeds, bags.....D	...	: .16	Eucalyptus Leaves, bales.....D	...	: .05	Henna Leaves, bales.....D	.18	: .20
Copaiba Balsam Para, see Balsams			Euphorbia Pilulifera Herb, bags..D	...	: .20	Powdered.....D	.23	: .34
Copal Gum.....D	.12	: .15	Euphorbium Gum, cases.....D	...	: .35	Honey, Calif., 120 lb cases.....D	.10	: .10½
Coriander Seed, Bombay bags....D	.11	: .11½	Powdered, boxes.....D	...	: .49	Hops, N. Y. prime bales.....D	.22	: .23
Morocco, bags.....D	.11	: .12	Fennel Seed, French bags.....D	...	: .17	Pacific Coast prime bales.....D	.18	: .20
Bleached, bags.....D	.15	: .15½	German, bags.....D	...	: .25	Horhound Herb, bales.....D	...	: .11
Corn Silk, bales.....D	.05	: .05½	Flax Seed, whole 180 lb bbls....ea	...	: 12.25	Horsetail Rush, bags.....D	...	: .15
Cotton Root Bark, bales.....D	.13	: .14	Ground, 180 lb bbls.....D	.06½	: .07	India Gum, see Karaya		
Cramp Bark, so-called bales.....D	...	: .08	Foenugreek Seed, 200 lb bags....D	.07½	: .08	<b>INSECT FLOWERS, open whole</b>		
True, bags.....D	...	: .40	Fish Berries, 100-125 lb bags....D	.03½	: .04	bales.....D	...	: ....
Cranebill Root, bags.....D	.10	: .11	Fringe Tree Bark, bags.....D	.17	: .18	Closed whole, bales.....D	...	: ....
<b>CUBE BERRIES, XX bags.....D</b>	.82½	: .83	<b>GALANGAL ROOT, bags.....D</b>	.08	: .09	Powdered, pure 200 lb bbls....D	...	: .75
Powdered, boxes.....D	.85	: .87½	Gambier Gum, bags.....D	.11½	: .12	Flowers and stems, 50 p. e.		
Cumin Seed, Levant bags.....D	...	: ....	Gallium Gum, cans.....D	1.20	: 1.35	200 lb bbls.....D	.40	: .42
Morocco, bags.....D	.30	: .32	Gamboge Gum, 160 lb cases.....D	1.08	: 1.20	Ipecac Root Cartagena, bags....D	1.75	: 1.80
Culvers Root, bags.....D	.55	: .65	Gelesmium Root, bags.....D	.11	: .11½	Powdered, 200 lb bbls, boxes..D	...	: 1.90
Cuttlefish Bone, Trieste, straps..D	.19	: .20	Gentian Root, bags.....D	.09	: .09½	Rio Whole, bags.....D	...	: ....
Jewelry, large, straps.....D	.45	: .55	Ginger, African, bags.....D	.12	: .12½	Powdered, 200 lb bbls, boxes..D	...	: ....
Small, straps.....D	.35	: .45	Jamaica, grinding, bags bbls....D	.28	: .38	Isinglass, American, 130 lb cs..D	.65	: .70
French, straps.....D	.19	: .20	Japan, bags.....D	.12½	: .13	Russian, (Beluga) bxs etns.....D	...	: 10.00
Powdered, boxes.....D	...	: .14	Cochin, ABC & lemon, bags....D	.13	: .13½	<b>JABORANDI LEAVES, bales.....D</b>	.25	: .28
Broken, boxes.....D	.07	: .08	Ginseng Root, cultivated, bags..D	8.00	: 10.00	Jalap Root, whole 150 lb bags..D	.34	: .35
Damar Gum, 136 lb cases.....D	.32	: .34	Northwestern Wild, bags.....D	14.00	: 15.00	Powdered, USP 250 lb bbls....D	.35	: .37
Damiana Leaves, bales.....D	.11	: .13	Southern Wild, bags.....D	10.00	: 12.00	Japan Wax, 224 lb cases.....D	.15	: .15½
Pandelion Root, Imp., bags.....D	.12	: .14	Golden Seal Root, bags.....D	3.20	: 3.25	Job's Tears, white bags.....D	.08	: .09
Deer Tongue Leaves, bales.....D	.07½	: .08	Powdered, boxes.....D	3.55	: 3.65	Juniper Berries, 125 lb bags....D	.03	: .03½
Digitalis Leaves, bales.....D	.06½	: .08	Grates of Paradise, bags.....D	.12	: .14	<b>KAMALA, boxes.....D</b>	2.75	: 3.00
Dill Seed, bags.....D	.09½	: .10				Karaya Gum, powdered, bbls....D	.15	: .20

SEALED BID SALE OF NAVY SURPLUS  
By the  
NAVY CENTRAL SALES OFFICE  
Navy Yard Washington, D. C.  
**ACIDS, CHEMICALS and ABRASIVES**  
On Tuesday, February 15, 1923  
Consisting of approximately:

Acids and Chemicals	Abrasives
15,520 lbs. Nitric Acid	6,049 lbs. Powdered Bath Brick
130,293 lbs. Sulphuric Acid	4,015 lbs. Valve Grinding Compound
200 lbs. Oleic Acid	21,528 lbs. Ground Emery
1,565 bots. (4-oz.) Silver Nitrate	22,575 lbs. Ground Glass
950 lbs. Calcium Phosphide	46,653 lbs. Tripoli Compound
1,300 lbs. Copper Sulphate	3,000 lbs. Soapstone
3,400 lbs. Iron Sulphate	1,670 lbs. Pumice Stone
2,895 lbs. Potassium Permanganate	<b>Miscellaneous</b>
9,500 lbs. Sodium Silicate	1,783 Charges "Foamite"
6,310 lbs. Sulphur Flour	140 lbs. Soldering Salts
19,550 lbs. Chlorinated Lime	850 cans Stove Polish
	211 lbs. Renewal Mixture for Storage Batteries

Write for Catalog No. 168-B, giving full description of above chemicals, also the terms of sale, to any of the following, who will also arrange for inspection:

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- |                       |   |
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LADY SLIPPER ROOT, bags...lb	.80	: .82	Musk, pods Cabardine, flus....oz	18.00	: 17.00	Patchouli Leaves, bales.....lb	.22	: .25
Larkspur Seed, bags.....lb	.39	: .41	Tonquin.....oz	22.00	: 23.00	Pepper, black Sing, bags.....lb	.10 1/4	: .10 1/4
Laurel Leaves, bales.....lb	.04 1/2	: .05	Grain Cab.....oz	25.00	: 26.00	White, bags.....lb	.13 1/2	: .14
Lavender Flowers, Ordinary...lb	.25	: .32	Synthetic, see Chemicals.....oz	35.00	: 38.00	Peppers, red Mombasa bags.....lb	.30	: .31
Selected.....lb	.35	: .37	Musk Root, Russian bags.....lb	...	...	Cherries, bags.....lb	.16 1/2	: .17
Leeches, tubs.....Per 100	7.00	: 7.50	Mustard Seed, Bari brown bags...lb	.07 1/2	: .08	Bombay, bags.....lb	.14 1/2	: .15
Lemon Peel, bags.....lb	.09	: .10	Bombay, brown.....lb	.06 1/2	: .07	Japan, bags.....lb	.29	: .30
Licorice Root, Russian whole...lb	.08	: .08 1/2	California, brown.....lb	.07 1/2	: .08	Pennyroyal Herb, bales.....lb	.08	: .12
Spanish, natural bales.....lb	.07 1/2	: .08	Yellow.....lb	...	...	Peppermint Leaves, imp. bales...lb	...	: .35
Powdered, bbls.....lb	.09	: .10	Chinese, yellow.....lb	.04	: .04 1/2	Domestic leaf.....lb	.27	: .30
Selected, 2 & 5 lb bundles...lb	.17 1/2	: .22	English, yellow.....lb	.08	: .09	Peru Balsam, see Balsams.....lb	...	...
Cuttings, 125 lb bags.....lb	.07 1/2	: .08	Dutch, yellow.....lb	.08	: .08 1/2	Pichi Leaves, bags.....lb	.20	: .23
Life Everlasting Herbs, bales...lb	.05	: .06	Danish, yellow.....lb	.07 1/2	: .09	Pimento, select bags.....lb	.04 1/2	: .04 1/2
Lime Juice, clarified bbls.....gal	.50	: .60	Myrrh Gum, select 200 lb cases...lb	.50	: .55	Pink Root, true bags.....lb	...	: 1.25
Linden Flowers, with leaves, bales lb	.23	: .25	Sorts, cases.....lb	.45	: .48	Pitch, Burgundy, see Burgundy Pitch	...	...
Without Leaves, bales.....lb	.45	: .48	NUTGALLS, Chinese bags.....lb	.15	: .16	Pleurisy Root, bags.....lb	...	: .22
Liverwort Leaves, bales.....lb	.30	: .32	Aleppy, bags.....lb	.14	: .15	Plantain Leaves, bales.....lb	...	: .15
Lobelia Herb, bales.....lb	...	: .15	Nutmegs, 110s cases.....lb	.21	: .23	Poke Berries, bags.....lb	...	: .15
Lobelia Seed, bags.....lb	.55	: .60	75s 80s cases.....lb	.25	: 25 1/2	Poke Root, bags.....lb	...	: .07
Lovage Root, Imported, bags.....lb	...	: .25	Nux Vomica Buttons, bags.....lb	.07	: .07 1/2	Pomegranate Bark, of root bags...lb	...	: .30
Lupulin, boxes.....lb	1.40	: 1.50	Powdered, 200 lb bbls.....lb	.11	: .11 1/2	Of Fruit, bags.....lb	...	: .30
Domestic.....lb	1.30	: 1.40	OAK BARK, red bags.....lb	.05	: .06	Of tree.....lb	...	: .30
Lycopodium, 88 lb cases.....lb	.47	: .50	White, bags.....lb	.05	: .06	Poppy Flowers, red bags.....lb	.30	: .35 1/2
MACE, Stauw, No. 1 cases.....lb	.41 1/2	: .42	Olibanum Gum, sift 280 lb cases...lb	.10	: .11	Poppy Seed, Dutch, bags.....lb	.14	: .14 1/2
Banda, No. 1 cases.....lb	.43	: .44	Tears, 280 lb cases.....lb	.14	: .15	German, bags.....lb	.11 1/2	: .12
Batavia, cases.....lb	.33	: .36	No. 1, all white, 280 lb cases	.24	: .30	Turkish, bags.....lb	.08	: .08
Malva Flowers, blue bales.....lb	.35	: .38	Opium, gum USP cases.....lb	...	: 6.75	Blue Indian, bags.....lb	.08	: .08 1/2
Black, bales.....lb	.65	: .75	Granular, cans.....lb	...	: 7.75	White Indian, bags.....lb	.07	: .07 1/2
Manna, large flake cases.....lb	.58	: .60	Powdered, USP cans.....lb	...	: 1.00	Prickly Ash Bark Southern, bags lb	.14	: .14 1/2
Small flake, cases.....lb	.35	: .36	Orange Flowers, cases.....lb	.06	: .06 1/2	Northern, bags.....lb	.14	: .14 1/2
Sorts, cases.....lb	.33	: .35	Orange Peel, bitter bags.....lb	.06 1/2	: .07	Prickly Ash Berries, bags.....lb	.11	: .13
Mandrake Root, bags.....lb	...	: .18	Sweet, bags.....lb	.06 1/2	: .07	Prince's Pine, bales.....lb	.14	: .15
Mastic Gum, 120 lb cases.....lb	.45	: .48	Orris Root Florentine bold bags lb	.07	: .08	Pulsatilla Herb, bags.....lb	.37	: .40
Memeron Bark, bags.....lb	.11	: .12	Verona, bags.....lb	.05	: .06	Pumpkin Seed bags.....lb	.09	: .12
Matico Leaves, bales.....lb	.18	: .20	Powdered, 200 lb bbls.....lb	.08	: .09	QUASSIA CHIPS, bags.....lb	.07	: .08
Marjoram Leaves, German bales...lb	.19	: .20	Fingers, cases.....lb	.65	: .70	Queen of the Meadow Herb, bags lb	.06	: .06 1/2
French, bales.....lb	.14	: .15	Ozokerite Wax, brown hard bags...lb	.22	: .24	Quince Seed, bags.....lb	1.80	: 1.65
Millet Seed, dom. yellow bags...lb	.03 1/2	: .05	Green, hard bags.....lb	.25	: .26	RAPE SEED, South Amer. bags...lb	.06 1/2	: .07 1/2
Montan, Wax, crude bags.....lb	.04 1/2	: .05	Refined, yellow bags.....lb	...	...	Dutch, bags.....lb	.08 1/2	: .08 1/2
Bleached.....lb	...	...	PAPRIKA, bags.....lb	.18	: .24	Japanese, small, bags.....lb	.08 1/2	: .07 1/2
Moss, Iceland bales.....lb	.08	: .09	Hungarian.....lb	.27	: .28	Raspberries, dried boxes.....lb	.38	: .40
Irish, bleached bales.....lb	.07	: .09	Pareira Brava Root, bags.....lb	.19	: .20	Red Saunders.....lb	.17	: .19
Mullein Flowers, flus.....lb	.55	: .60	Parsley Seed, bags.....lb	.08 1/2	: .09	Rhatany Root, bags.....lb	.10	: .11
						RHUBARB, H. D. cases.....lb	.42	: .43
						Powdered, 200 lb bbls.....lb	.48	: .50
						Rosemary Leaves, bales.....lb	.04	: .05



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Rosemary Flowers, cases bales...D	.28	: .30	Snake Root, Canada natural bags...D	.32	: .33	Tragacanth Gum, No. 1, ribbon,		
Rose Petals, pale .....D	.22	: .25	Stidipped, bags .....D	...	: .55	200 lb. ct. ....D	1.75	: 1.80
Red .....D	...	: .60	SOAP BARK, whole, 150-200 lb			No. 2 to No. 6, cases.....D	1.00	: 1.50
Blue Herb, bales.....D	.30	: .35	bales .....D	.06½	: .07	Powdered, 50 lb boxes.....D	1.00	: 1.50
SABADILLA SEED, bags.....D	.10	: .12	Cut, 125-175 lb bags.....D	.07½	: .08	Turkish, cases .....D	.75	: .90
Powder, bbls. ....D	.13	: .14	Crushed, 200 lb bbls.....D	.08½	: .09	Turmeric Root, Madras bags.....D	.07	: .07½
Saffron Flowers, Amer. bales.....D	1.30	: 1.35	Powdered, 200 lb bbls.....D	.13	: .14	Aleppy, bags .....D	.08½	: .08½
Valencia, 1 lb. cans.....D	36.00	: 37.00	Spearmint Leaves, American bales...D	.23	: .24	China, bags .....D	.08½	: .08
Sage, Dalmatian bales.....D	.05½	: .06½	Spermaceti, blocks cakes cases...D	.36	: .37	Turpentine, Venice, true 80 lb cs...D	.22	: .25
Greek, bales .....D	.03½	: .04	Spikenard Root, bags.....D	.15	: .16	Artificial, 80 lb cases.....D	.11	: .12
Spanish, bales .....D	.03	: .04	Spruce Gum, boxes.....D	1.00	: 1.50	Spirits, see Naval Stores		
Sandalwood, chips bags.....D	...	: .35	Squaw Vine, bales.....D	.16	: .17	UNICORN ROOT, false, see Helonias		
Ground, bags .....D	...	: .40	Squill Root, white bags.....D	...	: .04	True, see Aletris		
Sandarac Gum, 300 lb bbls.....D	.23	: .25	Stavesacre Seed, bags.....D	.28	: .29	Uva Ursi Leaves, bales.....D	.06½	: .07
Sarsaparilla, Honduras bales.....D	.54	: .55	Stillingia Root, bags.....D	.09½	: .10	VALERIAN ROOT, Belgian bags...D	.13	: .14
Mexican, bales .....D	.22	: .23	Stone Root, bags.....D	.09	: .10	Vanilla Beans Mex. whole cases...D	7.50	: 10.00
Sassafras Bark, ordinary bales...D	.12	: .14	Storax, liquid artif.....D	.70	: .75	Cuts, cases .....D	6.00	: 7.00
Select, bales .....D	.22	: .30	Gen. USP .....D	.90	: 1.00	Bourbon, cases .....D	2.75	: 3.25
Savory Leaves, bales.....D	.09½	: .10	St. Ignatius Beans, bags.....D	.22	: .23	South American, cases.....D	6.00	: 6.50
Saw Palmetto Berries, bags.....D	.12	: .13	St. John's Bread, bags.....D	.04	: .06	Tahiti, yellow label cases.....D	1.80	: 2.00
Scammony Resin, boxes.....D	.95	: 1.00	Stramonium Leaves, bales.....D	.06½	: .07	Green Label cases.....D	1.80	: 2.00
Scammony Root, bags.....D	.06	: .07	Stramonium Seed, bags.....D	.12	: .13	Violet Flowers, bags.....D	.05	: .70
Senega Root, bags.....D	.75	: .80	Strophanthus Seed, Hispidus.....D	...	: ...	WAHOO BARK, of root bags.....D	1.10	: 1.25
SENNA, Alex, 150 lb cases.....D	.30	: .32	Kombe, bags .....D	.30	: .35	Of Tree, bags.....D	.45	: .48
Half Leaf, 350 lb bales.....D	.14	: .17	Sunflower Seed, domestic bags...D	.07	: .07½	White Pine Bark, rounded, bags...D	.06	: .07
Siftings, 400 lb bales.....D	.09	: .09½	South American, bags.....D	.07	: .07½	White Poplar Bark, bags.....D	.04	: .05
Powdered, 200 lb bbls.....D	.12	: .13	TAGALDER BARK, bags.....D	.05	: .05½	Wild Cherry Bark, thin green		
Timmerly, job, 350 lb bales...D	.12	: .14	amarinds, bbls. ....D	.04½	: .04½	Rounded, bales .....D	.10	: .12
Grinding, 350 lb bales.....D	.05	: .08	Kegs .....per keg	3.25	: 3.50	Thick Rounded, bales.....D	.07	: .07½
Pods, 350 lb bales.....D	.06	: .06½	Tansy Herb, bales .....D	.14	: .15	Thin Natural, bales.....D	.08	: .08½
Powdered, 200 lb bbls.....D	.08	: .08½	Tar, Barbadoes, 50 gal. bbls. gal.	1.60	: 1.75	Thick Natural, bales.....D	.04½	: .05
Serpentaria Root, bags.....D	.85	: .90	Thus Gum, 280 lb bbls.....D	.04½	: .06	Willow bark bags.....D	...	: .08
Shellac, T.N., bags.....D	.81	: .82	Thyme, Spanish bales.....D	...	: .08	White, bags .....D	...	: .15
Superfine Orange, bags.....D	.89	: .90	French, bales .....D	.10	: .11	Witch Hazel Bark, bags.....D	...	: .08
D. C. bags.....D	...	: 1.00	Tilia .See Linden			Witch Hazel Leaves, bales.....D	...	: .07½
V. S. O., cases.....D	...	: .95	Tolu Balsam, see Balsams			Worm Seed, American bags.....D	.08½	: .09
Pwd. reg., 350 lb bbls.....D	.84	: .85	Tonga Bark, bags.....D	.30	: .31	Levant bags .....D	3.25	: 3.50
Regular Bleached, 350 lb bbls...D	...	: .85	Tonka Beans, Angostura cases...D	2.10	: 2.25	Wormwood Herb, imported bales...D	...	: .09
Bone, Dry, 350 lb bbls.....D	.89	: .90	Para, cases .....D	.80	: .85	Yacca Gum, red.....D	.04	: .04½
Simaruba Bark, bales.....D	.11	: .12	Surinam, cases .....D	.85	: .95	Ground .....D	.05½	: .08½
Sideritis Herb, cut bags.....D	...	: .22				YELLOW DOCK ROOT, bags.....D	.13	: .15
Skullcap Leaves, bales.....D	...	: .35				Yellow Parilla Root, bags.....D	.16	: .17
Stoe Berries, bags.....D	.83	: .84				Yersa Santa, bags.....D	.10	: .11
						Zedoary Root, bags.....D	.10	: .11

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# CHIRIS

## Essential Oils

and

## Synthetic Aromatic Chemicals

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**Antoine Chiris Company**

147-153 WAVERLY PLACE, NEW YORK, N. Y

American Works, Delawanna, N.J.

Canadian Office—489 St. Paul Street, West, Montreal.



## Essential Oils

## Essential Oils

Almond, Bitter USP 5 lb bots. ....	3.75	: 4.00	Copaiba, USP, 50 lb tins. ....	.35	: .40	Petit Grain, S. Am. 25 lb tins. ....	1.60	: 1.75
Bitter ff PA 5 lb bots. ....	3.75	: 4.00	Coriander, USP, 1 lb bot. ....	20.00	: 22.00	French, 1 lb bot. ....	7.00	: 7.50
Artificial (See Benzaldehyde—Chemicals)			Croton, USP 25 lb tins. ....	1.00	: 1.10	Pimento, 25 lb tins. ....	1.75	: 1.90
Sweet, 50 lb cans. ....	.38	: .40	Cubeba, USP 5 lb bot. ....	5.75	: 6.00	Pinus Sylvestris, 25 lb tins. ....	...	: 1.75
Peach Kernel, 55 lb tins. ....	.25	: .37	Cumin, 1 lb bot. ....	12.50	: 15.00	Pumilio, USP 25 lb tins. ....	...	: 2.75
Apricot, see Peach Kernel			Dill, 1 lb bot. ....	4.75	: 5.00	Rose, Fr., 8, 16 & 32 oz pkgs. ....	...	: 9.00
Amber, crude 25 lb tins. ....	.65	: .85	Erigeron, 20 lb tins. ....	.95	: 1.00	Bulg., 8, 16 & 32 oz pkgs. ....	5.00	: 6.00
Rectified, 25 lb tins. ....	39.00	: 39.00	EUCALYPTUS, Austral. USP			Artificial, 1 lb bot. ....	2.00	: 3.00
Angelica Root, 1 lb bot. ....	39.00	: 39.00	50 lb cs. ....	.42½	: .45	Rosemary, USP, 27½ lb tins. ....	.45	: .48
Seed, 1 lb bot. ....	39.00	: 39.00	500 lb drums. ....	...	: .42½	1000 lb drums. ....	...	: .42½
ANISE, Tech., 65 lb case. ....	.48	: .50	Fennel USP, 25 lb tins. ....	1.10	: 1.25	Tech., 27½ lb tins. ....	.40	: .45
USP 50 lb tins. ....	.55	: .60	Geranium, Algerian, 25 lb tins. ....	5.50	: 6.50	Rue, 1 lb bot. ....	...	: 4.25
Bay, 25 lb tins. ....	2.50	: 2.60	Bourbon, 25 lb tins. ....	...	: 4.50	Sandalwood, E Ind USP, 40 lb cases. ....	7.10	: 7.25
Bergamot, USP, 25 lb coppers. ....	2.50	: 3.00	Turkish, 25 lb tins. ....	...	: 4.50	W. Indian, (Amyris) 25 lb tins. ....	3.75	: 3.90
Artificial, 25 lb cans. ....	2.00	: 2.25	Ginger, 1 lb bot. ....	5.25	: 5.50	Sassafras, USP 50 lb cans. ....	.85	: .90
Birch Tar, rect. 5 lb bot. ....	1.10	: 1.15	Gingergrass, 25 lb tins. ....	2.75	: 3.00	Artificial, 63 lb cans, 1000 lb drs. ....	.42	: .45
Crude, 50 lb tins. ....	.60	: .65	Hemlock, 50 lb cans. ....	...	: 1.45	Savin, 5 lb tins. ....	3.25	: 3.50
Bois de Rose, 25 lb tins. ....	2.30	: 2.50	Juniper Berries, USP 25 lb tins. ....	1.10	: 1.25	Spearment, USP 60 lb cases. ....	...	: 2.50
Cade, USP, 25 lb tins. ....	.45	: .50	Wood, 50 lb tins. ....	.50	: .60	Spruce, 50 lb tins. ....	...	: 1.45
USP, 5 lb bot. ....	.55	: .60	Lavender, USP, 28 lb tins. ....	2.75	: 3.50	Tansy Amer., 20 lb tins. ....	7.50	: 8.00
Calaput, native, 50 lb tins. ....	...	: .85	Spike, Spanish 50 lb cans. ....	.70	: .80	Tar, 50 gal. bbls. ....	.26	: .27
Calamus, 5 lb bot. ....	4.25	: 4.75	LEMON, Ital. USP, 25 lb tins. ....	.70	: .80	Refined, USP 25 lb tins. ....	...	: ...
Camphor, heavy, 1000 lb drums. ....	11½	: 12	American, USP, 25 lb tins. ....	.75	: .85	Thyme, red, USP 25 lb tins. ....	.90	: 1.00
Japanese, white, 72 lb cases. ....	.15	: .17	Lemongrass, native, 50 lb cans. ....	.85	: .87½	White, USP 25 lb tins. ....	1.10	: 1.15
White, 1000 lb drums. ....	.14½	: .15	Limes, express 25 lb tins. ....	1.65	: 1.75	Crude, 110 lb drums. ....	.85	: .90
Cananga, Native 25 lb tins. ....	2.25	: 2.50	Distilled, 25 lb tins. ....	.48	: .50	Vetiver, Bourbon 1 lb bot. ....	5.50	: 6.00
Rectified, 25 lb tins. ....	2.50	: 2.75	Linaloe, Mex. 80 lb cases. ....	2.15	: 2.35	Java, 1 lb bot. ....	24.00	: 27.00
Caraway, USP, rec. 25 lb tins. ....	6.00	: 6.50	Mace, distilled 50 lb tins. ....	.95	: 1.05	Wine, heavy 1 lb bot. ....	...	: 2.75
Crude, 50 lb tins. ....	...	: ...	Mirbane, ref. see Ar. Chemicals			WINTERGREEN.		
Cardamom, USP, 1 lb bot. ....	13.00	: 15.00	Mustard, USP, 1 lb bot. ....	...	: 17.00	Sweet beh, 25 lb tins. ....	2.00	: 3.00
Carol, 5 lb bot. ....	8.50	: 9.00	Artif., USP, 5 lb bot. ....	2.75	: 3.00	Gaultheria, true 25 lb tins. ....	4.00	: 7.00
CASSIA, 75-80 p.c. 60 lb cases. ....	...	: ...	Neroli, Bigarade, ½ and 1 lb bot. ....	75.00	: 100.00	Synthetic, USP, 50 lb cans. ....	...	: .62
Redistilled, USP 50 lb cans. ....	2.10	: 2.15	Petale, 1 lb bot. ....	90.00	: 115.00	Wormseed, Balt., USP, 25 lb tins. ....	3.85	: 4.00
Cedar Leaf, 50 lb tins. ....	.85	: 1.00	Artificial, 1 lb bot. ....	10.00	: 25.00	Wormwood, dom., 25 lb tins. ....	8.00	: 8.50
Cedar Wood, light 1000 lb drums. ....	.25	: .26	Nutmeg, USP, 25 lb tins. ....	.85	: .90	Ylang Ylang, Bourbon 10 lb tins. ....	6.50	: 7.00
Celery, 1 lb bot. ....	9.00	: 9.50	Orange, bitter 25 lb tins. ....	1.90	: 2.00	Manila, 1 lb bot. ....	30.00	: 35.00
Cinnamon, Ceylon 1 lb bot. ....	12.00	: 15.00	Sweet, W. Ind., 25 lb tins. ....	2.20	: 2.35	Artificial, 1 lb bot. ....	10.00	: 12.00
Leaf, 5 lb bot. ....	...	: 2.00	Italian, 25 lb cop. ....	2.40	: 2.50	OLEORESINS		
CITRONELLA, Ceylon, 1000 lb drs. ....	.64	: .65	American, 25 lb tins. ....	2.65	: 2.70	Aspidium, USP 1 lb bot. ....	2.75	: 3.00
50 lb tins. ....	.65	: .66	Origanum, 50 lb cans. ....	.25	: .35	Capelcum, USP, 5 lb bot. ....	2.25	: 2.50
Java, 400 lb drums. ....	.82½	: .85	Parley, 1 lb bot. ....	5.00	: 5.50	Cubeb. USP 1 lb bot. ....	8.20	: 8.50
50 lb tins. ....	.85	: .90	Patchouli, 5 lb bot. ....	8.00	: 8.50	Ginger, 5 lb bot. ....	2.50	: 2.85
Cloves, USP, 50 lb cans. ....	1.90	: 2.00	Pennyroyal, dom 25 lb tins. ....	1.95	: 2.25	Malefern, See Aspidium	...	: 18.00
6 lb bot. ....	2.00	: 3.10	Imported, 25 lb tins. ....	1.65	: 1.75	Orris, 1 lb bot. ....	...	: 3.50
			PEPPERMINT, nat. 60 lb cases. ....	2.90	: 3.00	Pepper, black, USP, 1 lb bot. ....	3.50	: 4.00
			Redist., USP, 60 lb cases. ....	3.15	: 3.25	Vanilla, 1 lb bot. ....	9.00	: 9.50

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NEW YORK

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## NATURAL DERIVATIVES

Anethol, 2 lb bot.....	1.60	: 2.00
Borneol, 1 lb bot.....	...	: 3.50
Citronellal, 1 lb bot.....	2.00	: 2.25
CITRAL, 25 lb cans.....	2.75	: 3.00
EUCALYPTOL, USP, 25 lb cans..	.80	: .85
Eugenol, USP, 25 lb cans.....	3.50	: 3.75
Geraniol, Domestic, 50 lb cans...	2.75	: 3.25
Imported, 5 lb bot.....	3.25	: 3.75
Iso-Eugenol, 1 lb bot.....	4.25	: 4.50
Linalool, 5 lb bot.....	4.50	: 4.75
MENTHOL, 60 lb cases.....	8.00	: 8.20
Less cases, 5 lb cans.....	...	: 8.50
Rhodinol, 1 lb bot.....	15.00	: 16.00
SAFROL, 60 lb cans.....	.55	: .60
Thymol, USP, 10 lb cans.....	4.00	: 4.25

## SYNTHETIC AROMATICS

Acetaldehyde, 50% sol pure, 5 lb bot..	1.75	: 2.00
Acetophenone CP, 1 lb bot.....	4.00	: 4.25
Amyl Acetate, pure, 5 gal cans.gal	5.00	: 6.00
Amyl Butyrate, 1 lb bot.....	2.00	: 2.10
Amyl Formate, 1 lb bot.....	1.75	: 2.00
AMYL SALICYLATE, 100 lb chys..	1.45	: 1.60
Anisic Aldehyde, 1 lb bot.....	4.00	: 4.50
BENZALDEHYDE, USP, 40 lb chys..	1.40	: 1.50
FFC, 40 lb chys.....	1.70	: 1.80
Benzoic Ether, See Ethyl Benzoate		
Benzyl Acetate, 100 lb chys.....	1.50	: 1.65
Benzyl Alcohol, 5 lb bot.....	1.25	: 1.50
BENZYL BENZOATE, 5 lb bot.....	1.85	: 2.00
Medicinal FFC.....	2.10	: 2.30
Benzyl Formate, 1 lb bot.....	2.50	: 3.00
Bromstyrol, 25 lb kgs.....	4.00	: 4.25

Butyric Ether, See Ethyl Butyrate

Cinnamic Acid, 5 lb cans.....	2.75	: 3.00
Cinnamic Alcohol, liquid 1 lb bot..	15.00	: 16.00
Crystallizable.....	20.00	: 21.00
Cinnamic Aldehyde, 1 lb bot.....	3.75	: 4.00
CITRONELLOL, 1 lb bot.....	8.00	: 12.00
COUMARIN, 25 lb cans.....	4.00	: 4.25
DIETHYL PHTHALATE, 25 lb cans..	.85	: .90
Diphenyl oxide, 25 lb tins.....	.85	: .90
Ethyl Acetate, pure, 5 lb bot.....	.45	: .50
Ethyl Benzoate, 5 lb bot.....	1.85	: 2.00
Ethyl Butyrate, 5 lb bot.....	2.00	: 2.25
Ethyl Cinnamate, 1 lb bot.....	5.50	: 5.75
Ethyl Formate, 5 lb bot.....	.95	: 1.00
Ethyl Valerate, 5 lb bot.....	4.50	: 4.75
Formic Ether, See Ethyl Formate		
Geranyl Acetate, 1 lb bot.....	5.00	: 5.25
Hellotropin, 10 lb bot.....	2.50	: 2.75
Indol, CP, 1 oz bot.....	8.50	: 9.00
Ionone, 1 lb bot.....	5.50	: 6.00
Linalyl Acetate, 1 lb bot.....	6.00	: 6.75
Linalyl Benzoate, 1 lb bot.....	13.00	: 14.00
METHYL ANTHRANILATE, 1 lb bot..	4.00	: 4.50
Methyl Cinnamate, 1 lb bot.....	4.50	: 5.00
Methyl Paracresol, 1 lb bot.....	8.00	: 9.00
METHYL SALICYLATE, USP 500 lb		
drums.....	...	: .60
50 lb cases.....	...	: .62
Second Hands.....	...	: .55
Mirbane, rect, 1000 lb drums....	12 1/2	: 14
Musk Ambrette, 1 lb cans.....	15.00	: 16.00
Musk Ketone, 1 lb cans.....	14.00	: 14.50
Musk Xylene, 5 lb cans.....	3.25	: 3.50
Nerolin, 1 lb cans.....	1.75	: 2.00
Phenylacetaldehyde, CP, 1 lb bot..	9.00	: 11.00
Phenylacetic Acid, 1 lb bot.....	4.00	: 6.00
Phenylacetic Acid, 1 lb bot.....	3.00	: 4.00
PHENYLETHYLALCOHOL dom.,		
1 lb bot.....	7.50	: 9.00
Imported.....	...	: 12.50
Phenylpropylalcohol, 1 lb bot....	15.00	: 16.00

TERPINEOL, CP, 1000 lb drums..	.50	: .60
Cans 50 lb.....	.55	: .60
Imported, 25 lb cans.....	.70	: .75
Terpinyl Acetate, 25 lb cans.....	1.75	: 2.00
VANILLIN, USP, 400 oz cans....	.43	: .45
Cans, 16 oz., 80 oz.....	.45	: .46
Valerianic Ether, See Ethyl Valerate		
Yara Yara, 1 lb cans.....	2.00	: 2.50

## PERFUMERS' SUNDRIES

Almond Meal, 25 lb cans.....	.28	: .30
Ambergris, black, bxs.....	...	: 8.00
Ambergris, gray, bxs.....	...	: 28.00
Balsam Copaiba, Para, 80 lb cases..	.23	: .24
South American, 80 lb cases..	.28	: .29
Balsam Peru, 60 lb cans.....	...	: 2.25
Balsam Tolu, 90 lb cases.....	.75	: .80
Benzoin Gum, Siam, bxs.....	1.00	: 1.10
Castoreum, 1 lb bot.....	4.00	: 4.50
Chalk, precip, light, 175 lb bbls..	.04 1/4	: .05
Cherry Laurel Water, 5 gal cans.gal	1.15	: 1.25
Civet Abyssin, horns.....	2.75	: 2.85
Labdanum, 5 lb bot.....	...	: 8.00
Lanolin hydrous, 350 lb bbls....	.23	: .24
Anhydrous, 350 lb bbls.....	.25	: .26
Musk pods, Cabardine, tins....	16.00	: 17.00
Tonquin, tins.....	22.00	: 25.00
Grains, Cabardine, tins.....	25.00	: 26.00
Tonquin, tins.....	35.00	: 38.00
Synthetic, See Aromatic Chemicals		
Orris Rt. Flor., powd. bbls.....	...	: .10
Verona, bbls.....	.08	: .09
Rice Starch, 140 lb bgs.....	.09	: .10
Rose Water, 5 gal chys.....gal	1.15	: 1.25
Sandalwood chips, powd, bags....	.35	: .40
Saponin, 5 lb tins.....	1.25	: 1.50
Talc Italian, 220 lb bgs.....ton	42.00	: 55.00
Talc French, 220 lb bags.....ton	32.00	: 45.00
Talc, domestic ref., 100 lb bags..ton	20.00	: 30.00



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**AMMONIUM SALTS**—93 bbls., A. Klipstein & Co., Antwerp; **Chloride**, 70 csks., Wing & Evans, Liverpool; **Muriate**, 135 csks., C. De P. Field Co., Bristol; **Nitrate**, 3 csks., Kuttroff Pickhardt & Co., Hamburg; 198 csks., Kuttroff Pickhardt & Co., Hamburg; 1,468 csks., Order, Hamburg

**ARSENIC**—115 csks., R. W. Greeff & Co., Antwerp; 331 pkgs., Order, Antwerp; 27 csks., Order, Bristol; 177 csks., Order, Liverpool

**ARSEN MEAL**—250 csks., Superfos Co., Hamburg

**BALSAM**—10 cs., Neuss Hesslein & Co., Hamburg

**BARIUM**—Carbonate, 28 csks., 100 bgs., A. Klipstein & Co., Rotterdam; **Hydrate**, 36 bbls., Brown Bros. & Co., Hamburg; 36 bbls., Brown Bros. & Co., Hamburg; **Nitrate**, 40 csks., Irving Nat. Bank, Hamburg; 51 bbls., Order, Hamburg

**BARK**—4 bgs., Brown Bros. & Co., London; 5,784 bgs., Tannin Corp., Durban; **Tannin**, 1,109 bgs., Cooper & Cooper, Beira; **Wattle**, 7,663 bgs., Smith Kirkpatrick & Co., Durban; 1,117 bgs., Friedlan Leather Co., Durban

**BARYTES**—40 cs., Hummell & Robinson Corp., Hamburg

**BERRIES**—Juniper, 20 bgs., Zakrasek & Cesarek, Trieste

**BISMUTH METAL**—7 cs., C. Pfizer & Co., Hamburg

**BLANC FIXE**—100 bgs., Order, Hull

**BLEACHING POWDER**—225 bxs., H. Kohnstamm & Co., Liverpool

**BONE PHOSPHATE**—500 bgs., Hollinghurst & Co., Antwerp

**CAMPHOR**—1 cse., E. Fougera & Co., London

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**CARBON**—40 cs., P. H. Petry & Co., Hamburg

**CASEIN**—167 bgs., Equit. Trust Co., Buenos Aires; 417 bgs., Nat. City Bank, Buenos Aires; 2,500 bgs., Kalbfleisch Corp., Buenos Aires; 417 bgs., T. M. Dueche & Sons, Buenos Aires; 804 bgs., Equitable Trust Co., Buenos Aires; 83 bgs., A. Klipstein & Co., Hamburg; 289 bgs., Order, London

**CHALK**—1,000 bgs., L. A. Salomon & Bro., Antwerp; 1,600 bgs., J. W. Lyon & Sons, London; 450 bgs., H. J. Baker & Bro., Bristol; 563,905 kilos, Tainter Trdg. Co., Dunkirk; 1,003 bgs., Order, Dunkirk

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csks., Kuttroff Pickhardt, Rotterdam; 7 pkgs., C. Ruhl, Rotterdam; 6 csks., Grasselli Chem. Wks., Rotterdam; 3 csks., H. A. Metz, Rotterdam; 12 csks., Kuttroff Pickhardt, Rotterdam; 3 csks., Franklin Imp. & Exp. Co., Rotterdam; 3 csks., Carbic Color & Chem. Co., Rotterdam; 1 bbl., Grasselli Chem. Co., Vera Cruz; 34 bbls., Ciba Co., Havre; 2 cs., B. F. Drakenfeld Co., Havre; 10 csks., Irving Nat. Bank, Havre; 30 csks., Order, London; 7 csks., 2 cs., Franklin Import & Export Co., Hamburg; 23 cs., United Chem. Co., Vera Cruz; 4 cs., H. Triest & Co., Vera Cruz

**COPPER**—Sulfate, 200 csks., Nitrate Agencies, Liverpool

**COPRA**—74 bgs., Franklin Baker & Co., Kingston

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**ETHYL CHLORIDE**—6 cs., D. B. Levy, Hamburg

**EUPHORBIA PILULIFERA**—20 bls., Order, Bombay

**EXTRACTS**—Linaloe, 5 cs., Order, Vera Cruz; Logwood, 94 csks., J. D. Lewis & Co., Kingston; Quebracho, 36,908 bgs., Intern. Prod. Co., Buenos Aires; 10,700 bgs., Tannin Corp., Buenos Aires; 3,510 bgs., Guaranty Trust Co., Buenos Aires; **Rennet**, 12 csks., Meadows Wye & Co., Copenhagen; 2 bbls., F. Behrend, Copenhagen; 8 cs., Alpha Lux Co., Copenhagen; 164 pkgs., F. B. Vandegrift & Co., Copenhagen

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Chicle, 24 bgs., J. A. Medina & Co., Vera Cruz; 1 bg., Gomez & Sloan, Vera Cruz; 29 pkgs., Gomez & Sloan, Vera Cruz; 167 pkgs., J. A. Medina & Co., Vera Cruz; 551 pkgs., Mexican Exploitation Co., Tampico; 694 pkgs., Mississippi Warrior Service, Tampico; 237 bls., A. Ward, Belize; 14 bls., Cordillera Comm'l Co., Belize Copal, 600 bgs., Brown Bros. & Co., Antwerp; 656 pkgs., France Campbell & Darling, Macassar; 233 pkgs., L. C. Gillespie & Sons, Macassar; 178 cs., 71 bkts., J. W. Green & Co., Macassar; 2,637 cs., Order, Macassar; 170 cs., Order, Akaselaka; Burnt, 30 csks., Order, London; Damar, 26 bgs., S. Winterbourne & Co., London; 350 cs., Smith & Schipper, Tandjong Priok; Gamboge, 2 cs., Order, London; Tragacanth, 41 cs., Brown Bros. & Co., Hamburg

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94 bls., Chem. Nat. Bank, Trieste; 80 bls., Kuechler & Co., Trieste; Thyme, 51 bgs., Bank of Athens, Calamata

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**LITHOPONE**—1,250 csks., Benjamin Moore & Co., Antwerp

**MAGNESIUM**—Carbonate, 39 bbls., Hummell & Robinson, Hamburg; Chloride, 1,081 drs., Innis Speiden, Hamburg; 1,488 drs., Innis Speiden, Hamburg; 67 drs., Fulton Bag & Cn. Mills, Hamburg; 125 drs., A. Blanck, Hamburg

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Coriander, 1 cse., Order, Hamburg; Juniper Berry, 5 cs., Kuechler & Co., Trieste; Orange, 30 cs., Huth Gillespie & Co., Kingston; 10 cs., Colonial Bank, Kingston;

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**WHITING**—50 bgs., Order, Hull; 500 bgs., L. H. Butcher & Co., Bristol; 269 bbls., Industrial Chem. Co., London  
**WOOD FLOUR**—432 bgs., A. Kramer & Co., Hamburg; 391 bgs., Hansa Co., Hamburg  
**ZINC**—**Resinate**, 10 csks., Order, London; **White**, 20 bbls., C. G. Euler, Havre

Imports at San Francisco for the week ending Jan. 20 included the following: On the steamer Tenyo Maru, from Hongkong, to H. M. Newhall & Co., 100 cases Saigon cassia and to the W. J. Bush Citrus Products Co., 75 cases linseed oil; from Shanghai, to Peet Bros. 8 drums glycerin. On the steamer Alaska, from Bordeaux, to the American Cream Tartar Co., 706 bags cream of tartar; from Cristobal, to D. Ghirardelli & Co., 250 bags cocoa. On the steamer Astyanax, from Glasgow, to the R. R. Rogers Chemical Co., 18 drums tar oil. On the steamer Mexican, from Hamburg, to E. H. Otto & Co., 96 drums calcium chloride, to the Owl Drug Co., 9 cases alum stones.

Dr. W. D. Harkins and Dr. R. D. Mulligan of the University of Chicago announce that by passing chlorine through the stems of ordinary smoking pipes they separated this chemical into two elements, whereas it had long been regarded as one. Dr. Harkins says that mercury was "split" up by evaporation at low pressure and by diffusing it. This established, he said, that mercury contained at least six, and perhaps seven or eight elements.

The Enterprise Chemical Co. of Huntington, W. Va., recently organized with capital of \$100,000, will construct a lime plant at Lawton, Ky., to develop a daily capacity of 1,500 tons. A hydrating plant will also be erected, and equipment installations, including crushing, pulverizing and screening, will be made. F. L. Parr is general manager, and William Lewis, construction engineer.

The Air Reduction Co., C. E. Adams, president, 342 Madison ave., New York, will begin immediately the erection of its projected plant in Baltimore. The cost of the establishment and equipment for the manufacture of acetylene gas and oxygen is estimated at \$150,000. The new plant will furnish employment for about forty men.

The Georgia-Florida Fertilizer Co., Savannah, Ga., will begin at once the operation of the former plant of the Kirkland Fertilizer Co., recently acquired. Improvements in various departments at the works will be made to increase the daily output.

Livingston Gelb has opened offices at 6 Stone street, New York, for the purpose of carrying on a general chemical import business. Mr. Gelb was formerly connected with Geo. F. Taylor & Co., New York.

## Books of Trade Interest

**COLLOID CHEMISTRY OF THE PROTEINS.** By Professor Dr. Wolfgang Pauli, Director of the Laboratory for Physico-chemical Biology, University of Vienna. Translated by B. C. L. Thorne, M.A., A.I.C., Sir John Cass Technical Institute, London. 140 pages. P. Blakiston's Son & Co., Philadelphia.

A technical discussion of colloid chemistry and the chemistry of the proteins. Conditions of stability in protein solutions are taken up, with discussion of electrical charges, hydration of particles, and the theory of precipitation. Properties of proteins in iso-electric reaction and the salts of albumen with acids and bases are thoroughly discussed, together with the methods employed in researches, the determinations made and the conclusions drawn. Tables and diagrams indicate the progress made in this field of chemistry.

**INORGANIC CHEMICAL SYNONYMS.** By Elton Richmond Darling, professor of chemistry, James Millikin University, Decatur, Ill. 8vo., 120 pages. D. Van Nostrand Co., New York City. 1922.

Contains a list of chemical compounds and elements together with their synonyms. Should be particularly valuable to students not already familiar with the various terms, but could be used as a handy reference by anyone dealing in or using chemicals. The terms are cross-referenced.

**TEXT-BOOK OF INORGANIC CHEMISTRY.** By A. F. Holleman, Ph.D., LL.D., F.R.A. Amst. Professor in the University of Amsterdam, and Hermon Charles Cooper. 8vo., 528 pages. John Wiley & Sons, Inc., New York. 1921. Sixth English Edition.

This well-known text-book, now in its sixth English edition, needs no introduction. A few changes, brought on during the war, are incorporated in the revised volume.

**A METHOD FOR THE IDENTIFICATION OF PURE ORGANIC COMPOUNDS.** Vol. VII. By Samuel Parsons Milliken, Ph.D., Associate Professor of Organic Chemical Research, Massachusetts Institute of Technology. 8vo., 238 pages. John Wiley & Sons, Inc., New York. 1922.

A table of tests for various organic compounds containing chloride, bromide, iodine, sulfur, nitrogen, gold and platinum, in various combinations or separate, as "additional elements." The fourth volume of a series devoted to the analysis of pure organic compounds.

**SALESMANSHIP.** By B. J. Munchweiler. 8vo., 221 pages. Penn Publishing Co., Philadelphia. 1922.

A collection of hints and suggestions for salesmen, particularly retail and wholesale. The work follows the general trend of most books of that nature.

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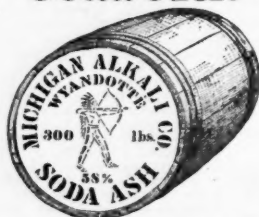
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All Tests

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Granular if Desired

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Newark



## Buyers' Guide

For full particulars as to products and addresses see Index of Advertisers on the page following.

### HEAVY CHEMICALS

J. T. Baker Chemical Co.	International Salt Co.
Battelle & Renwick	Merchants Chemical Co.
Bowker Chemical Co.	Meteor Products Co.
Church & Dwight	Mathieson Alkali Works
The Cleveland-Cliffs Iron Co.	The Miner-Edgar Co.
Commercial Solvents Corp.	Monsanto Chemical Works
Contact Process Co.	Clarence Morgan & Co.
Chas. Cooper & Co.	Nichols Copper Co.
Darco Sales Corp.	Pfaltz & Bauer
Diamond Alkali Co.	The Selden Co.
The Dow Chemical Co.	Roessler & Hasslacher Chem.
E. I. du Pont de Nemours & Co.	Semet Solvay Co.
Ellis Jackson & Co.	E. M. Sergeant Co.
B. G. Feinberg	Solvay Process Co.
Alex C. Fergusson, Jr.	Stein Hall & Co.
General Chemical Co.	Superfos Company
Grasselli Chemical Co.	Thorkildsen-Mather Co.
W. F. George Chemicals, Inc.	U. S. Industrial Alcohol Co.
Wm. S. Gray & Co.	Victor Chemical Works
R. W. Greeff & Co.	The Warner Chemical Co.
Hans Hinrichs Chem. Corp.	Wilkes-Martin-Wilkes Co.
Edward Hill's Son & Co.	Isaac Winkler & Bro. Co.
Industrial Chemical Co.	Jacques Wolf & Co.
Innis Speiden & Co.	

### FINE CHEMICALS

Abbott Laboratories	Jose Lopez
Baird & McGuire	Magnus, Mabee & Reynard, Inc.
J. T. Baker Chemical Co.	Mallinckrodt Chemical Works
Bowker Chemical Co.	May & Baker
Carbide & Carbon Chem. Corp.	Meteor Products Co.
Chicago Starch Co.	H. A. Metz & Co.
Antoine Chiris Co.	The Miner-Edgar Co.
Commercial Solvents Corp.	Monsanto Chemical Works
Charles Cooper & Co.	Clarence Morgan & Co.
Darco Sales Corp.	N. Y. Quinine & Chem. Works
J. E. Dockendorff & Co.	Perth Amboy Chem. Wks.
The Dow Chemical Co.	Pfaltz & Bauer
Eastman Kodak Co.	Powers-Weightman-Rosengarten
Electro Bleaching Gas Co.	Roessler & Hasslacher Chem. Co.
B. G. Feinberg	Rhodia Chem. Co.
E. Fougere & Co.	Chas. V. Sparhawk
Grasselli Chemical Co.	Stein Hall & Co.
Guasti-Finch Chem. Co.	Superfos Company
William S. Gray & Co.	Thorkildsen-Mather Co.
R. W. Greeff & Co.	Ungerer & Co.
Hans Hinrichs Chem. Corp.	U. S. Industrial Chemical Co.
Albert H. Higbie	Victor Chemical Works
Hoffman-La Roche Chem. Wks.	Wilkes-Martin-Wilkes Co.
Industrial Chemical Co.	

### DYESTUFFS

Calco Chemical Co.	H. A. Metz & Co.
Dow Chemical Co.	National Aniline & Chemical Co.
Dye Products & Chem. Co.	
Essex Aniline Works	New Brunswick Chem. Co.
E. I. du Pont de Nemours & Co.	Newport Chemical Works
Ellis Jackson & Co.	Pharma-Chemical Corp.
Gary Chem. Co.	Southern Dyestuffs Co.
Grasselli Chemical Co.	Stein Hall & Co.
Heller & Merz Co.	Jacques Wolf & Co.

### COAL TAR PRODUCTS

Abbott Laboratories	Jordan Coal Tar Products Co.
Baird & McGuire	H. A. Metz & Company
The Barrett Co.	Monsanto Chemical Works
Calco Chemical Co.	National Aniline & Chemical Co.
Chatfield Mfg. Co.	
Commonwealth Chemical Corp.	Newport Chemical Works
Essex Aniline Works	Protexol Corp.
E. I. du Pont de Nemours & Co.	Southern Dyestuffs Co.
Heller & Merz Co.	

### FATTY OILS

Antoine Chiris Co.	Jacques Wolf & Co.
New Brunswick Chem. Co.	

### ESSENTIAL OILS

M. L. Barrett & Co.	Magnus, Mabee & Reynard, Inc.
W. J. Bush & Co.	Morana, Incorporated
Antoine Chiris Co.	Clarence Morgan & Co.
Delphi Products, Inc.	Pfaltz & Bauer, Inc.
J. E. Dockendorff & Co.	Chas. V. Sparhawk
Fritzsche Bros.	Ungerer & Co.

### CRUDE DRUGS

Amecousema Am. Trad'g House	H. R. Lathrop & Co.
M. L. Barrett & Co.	Jose Lopez
W. J. Bush & Co.	Magnus, Mabee & Reynard, Inc.
E. Fougere & Co.	Morana, Incorporated
Hoffman-La Roche Chem. Wks.	Pfaltz & Bauer
Arthur Stallman & Co.	

### EQUIPMENT

Buffalo Foundry & Machine Co.	Nashville Industrial Corp.
The Chemical Age	La Revue des Produits Chimiques
Chemical Trade Journal	The Yakugyo Shuho

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Alpha Naphthylamine

Ortho Nitro Toluol

Ortho Toluidine

Para Toluidine

Sodium Naphthionate

N W Acid

R Salt

Cleves Acid

Para Nitro Toluol

Tolidine Base

Meta Phenylene Diamine

Meta Toluylene Diamine



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Passaic, New Jersey

3

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Maison Blanche Bldg.  
**NEW YORK**  
27 William Street  
**NEWARK**  
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#### Warehouses

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PHILADELPHIA	KANSAS CITY	DETROIT
BOSTON	NEW ORLEANS	CINCINNATI
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Paradichloro-Benzol  
Yellow Prussiate  
of Soda  
Calcium Chloride  
73-75%  
Calcium Chloride  
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Hexachlorethane  
Isopropyl Chloride  
Isopropanol  
(Isopropyl Alcohol)  
Paraldehyde  
Propylene Chlorhydrin  
Propylene Dichloride  
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**Low freezing constituent for solutions**

**Non-fermentable moistening agent**

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